

Service Manual

Pioneer

ORDER NO.
RRV2379

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-839RDS

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	The voltage can be converted by the following method.
	VSX-839RDS		
HYXJI	○	AC220-230V	AC240V, *
HVXJI	○	AC230V	AC240V, *

* : Alter the wiring of the Power-supply block at the primary winding of Power-transformer referring to the "Line Voltage Selection" described in Service Manual.

● This service manual should be used together with the following manual(s):

Model No.	Order No.	Remarks
VSX-35TX/KUXJI/CA	RRV2351	

CONTENTS

1. CONTRAST OF MISCELLANEOUS PARTS 2
2. PCB CONNECTION DIAGRAM 12
3. SCHEMATIC DIAGRAM 14

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS SERVICE, INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER ELECTRONIC NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
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1. CONTRAST OF MISCELLANEOUS PARTS

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

● The Δ mark found on some component parts indicates the importance of the safety factor of the part.

Therefore, when replacing, be sure to use parts of identical designation.

● Screws adjacent to ∇ mark on product are used for disassembly.

● Reference Nos. indicate the pages and Nos. in the service manual for the base model.

● When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 $\rightarrow$ 56 x 10¹ $\rightarrow$ 56J RD1/4PU[5]6[1]J

47k $\rightarrow$ 47 x 10³ $\rightarrow$ 47J RD1/4PU[4]7[3]J

0.5 $\rightarrow$ R50 RN2H[R]5[0]K

1 $\rightarrow$ 1R0 RS1P[1]R[0]K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k $\rightarrow$ 562 x 10¹ $\rightarrow$ 562J RN1/4PC[5]6[2]J

■ CONTRAST TABLE

VSX-839RDS/HYXJI, HVXJI and VSX-35TX/KUXJI/CA are constructed the same except for the following:

Ref. No.	Mark	Symbol and Description	Part No.			Remarks
			VSX-35TX /KUXJI/CA	VSX-839RDS /HYXJI	VSX-839RDS /HVXJI	
P5-1		PCB ASSEMBLIES FM/AM TUNER UNIT	AXQ7231	AXQ7232	AXQ7232	
P5-5	NSP	MAIN ASSY	AWK7591	AWK7621	AWK7621	
P5-12		— MAIN CONTROL ASSY	AWX7560	AWX7625	AWX7625	
		— DSP ASSY	AWX7561	AWX7626	AWX7626	
P5-2	NSP	COMPLEX ASSY	AWK7592	AWK7622	AWK7624	
P5-6		— EX I/O (5 1CH I/O) ASSY	AWX7568	AWX7627	AWX7627	
P5-12		— A-CONNECTION ASSY	AWX7566	AWX7619	AWX7619	
P5-13		— V-CONNECTION ASSY	AWX7567	AWX7717	AWX7717	
P5-15		— TRANS-2 ASSY	AWX7565	AWX7720	AWX7720	
		— PRIMARY ASSY	AWX7563	AWX7596	AWX7604	
P5-4	NSP	POWER ASSY	AWK7593	AWK7669	AWK7669	
P5-10		— INPUT ASSY	AWX7573	AWX7600	AWX7600	
		— SP/PS ASSY	AWX7571	AWX7735	AWX7735	
		— FAN DRIVER ASSY	Not used	AWX7599	AWX7599	No. 1
P5-7	NSP	FRONT ASSY	AWK7594	AWK7623	AWK7623	
P5-8		— COMPOSITE ASSY	AWX7581	AWX7617	AWX7617	
P6-3		— S VIDEO ASSY	AWX7580	AWX7616	AWX7616	
P7-1		— V-AMP ASSY	AWX7578	AWX7723	AWX7723	
P7-6		— DISPLAY ASSY	AWX7574	AWX7601	AWX7601	
		— FRONT DIGIN ASSY	AWX7648	Not used	Not used	
		— P- SW ASSY	Not used	AWX7593	AWX7593	No. 2
P3-2		PACKING SECTION FM Wire Antenna	ADH7004	ADH7005	ADH7005	
P3-3		Operating Instructions (English)	ARB7222	ARB7225	ARB7225	
P3-3		Operating Instructions (German)	Not used	ARC7293	Not used	
P3-3		Operating Instructions (French)	Not used	ARC7292	Not used	
P3-3		Operating Instructions (Italian)	Not used	ARC7294	Not used	
P3-3		Operating Instructions (Dutch)	Not used	ARC7296	Not used	
P3-3		Operating Instructions (Swedish)	Not used	ARC7298	Not used	
P3-3		Operating Instructions (Spanish)	Not used	ARC7295	Not used	
P3-3		Operating Instructions (Portuguese)	Not used	ARC7297	Not used	
P3-4		Remote Control Unit (35TX)	AXD7266	Not used	Not used	
P3-4		Remote Control Unit (839RDS)	Not used	AXD7270	AXD7270	
P3-8		Packing Case	AHD7860	AHD7866	AHD7866	
P3-11	NSP	Warranty Card	ARY7007	ARY7022	ARY7022	

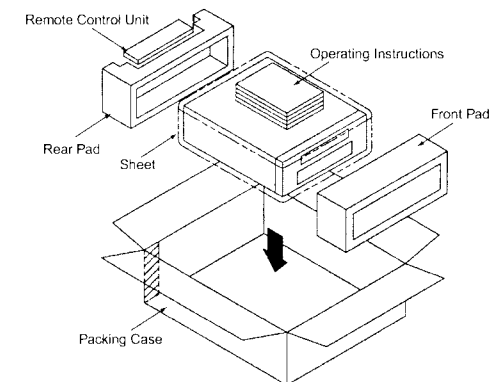
Ref. No.	Mark	Symbol and Description	Part No.			Remarks
			VSX-35TX /KUXJI/CA	VSX-839RDS /HYXJI	VSX-839RDS /HVXJI	
P5-18	Δ	EXTERIOR SECTION Power Transformer	AT57284	AT57285	AT57285	
P5-19	Δ	Fuse (FU4, FU5 :)	REK1112 (2.5A)	REK1025 (T2.0A)	REK1025 (T2.0A)	
P5-21	Δ	Fuse (FU1 :)	VEK1029 (10A)	REK-106 (T4.0A)	REK-106 (T4.0A)	
P5-26		Cord Stopper	CM-22C	CM-22B	CM-22B	
P5-27	Δ	AC Power Cord	VDG1075	VDG1080	VDG1076	
P5-28		Spacer	AEB7210	AEB7213	AEB7213	
P5-31		Rear Panel	ANC7910	ANC7913	ANC7940	
P5-35		Trans Shield	ANG7293	ANG7294	ANG7294	
P5-41		Earth Terminal	AKE-031	Not used	Not used	
P5-46	Δ	65 Label	ARW7050	Not used	Not used	No. 3
		Fan Motor	Not used	AXM7012	AXM7012	No. 4
		Locking Card Spacer	Not used	AEC7160	AEC7160	
	Δ	HEAT SINK SECTION Thermistor	Not used	AEX7004	AEX7004	No. 5
P7-9		FRONT PANEL SECTION 4P Flexible Cable/60V	ADD7238	Not used	Not used	
P7-12		5P Shield Wire with Housing	ADX7344	Not used	Not used	
P7-14		Door	AMB7692	ANB7223	ANB7223	
P7-19		Digital Cap	AAD7576	Not used	Not used	
P7-21		Window	AAK7769	AAK7770	AAK7770	
P7-22		Door Sheet	AAK7783	AAK7779	AAK7779	
P7-25		Front Panel	AMB7691	ANB7231	ANB7231	
P7-30		Damper Assy	AXA7089	AXA7088	AXA7088	
P7-31		Name Plate	PAM1776	PAN1376	PAN1376	
		POWER Button	Not used	ADD7442	ADD7442	No. 6

Notes: ● The numbers in the remarks column correspond to the numbers on the "EXPLODED VIEWS".

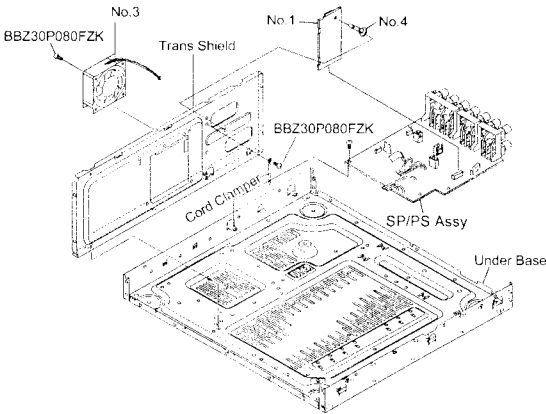
● For PCB ASSEMBLIES, Refer to "CONTRAST OF PCB ASSEMBLIES", "2. PCB CONNECTION DIAGRAM" and "3. SCHEMATIC DIAGRAM".

■ EXPLODED VIEWS

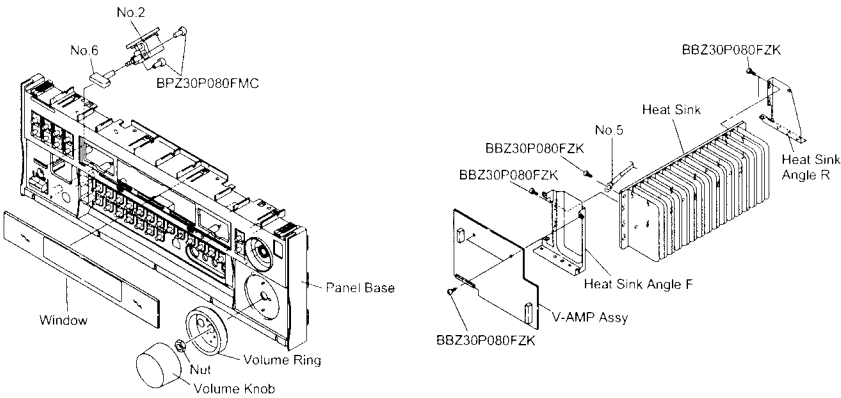
● PACKING SECTION



● EXTERIOR SECTION



● FRONT PANEL and HEAT SINK SECTIONS



■ CONTRAST OF PCB ASSEMBLIES

AF FM/AM TUNER UNIT

AXQ7232 and AXQ7231 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AXQ7231	AXQ7232	
BN201		AKA7003	AKA7002	
Q601		Not used	2SC2412K	
Q602		Not used	DTC124EK	
D101		Not used	UDZS6.8B	
D601		Not used	HVU187	
L601		Not used	LCTA270J2520	
L602		Not used	LAU2R2J	
F601		Not used	ATF7025	
C101		CKSRYB103K50	Not used	
C103, C104, C609		Not used	CKSRYB102K50	
C206		CCSRCH100D50	CCSRCH120J50	
C209		CKSRYB223K50	Not used	
C210		CEJA470M16	CEJQ470M16	
C211		CEJA1R0M50	CEJQ1R0M50	
C215		CKSRYB681K50	CKSRYB471K50	
C216, C217		CKSRYB153K50	CKSRYB103K50	
C244, C611		Not used	CKSRYB223K50	
C601, C602		CKSRYB103K50	Not used	
C603		CKSRYB223K50	CKSRYB392K50	
C604, C610, C615		Not used	CKSRYB103K50	
C605		Not used	CCSQCH680J50	
C606		Not used	CKSRYB561K50	
C607, C608		Not used	CKSRYB182K50	
C614		Not used	CCSRCH101J50	
R101		Not used	RS1/16S0R0J	
R102, R225, R243		RS1/16S0R0J	Not used	
R103		RS1/10S331J	RS1/10S221J	
R104		RS1/10S391J	RS1/10S221J	
R105, R605		Not used	RS1/16S222J	
R201		RS1/16S391J	Not used	
R202		RS1/16S221J	RS1/16S101J	
R212		RS1/16S392J	RS1/16S512J	
R216		RS1/16S123J	RS1/16S103J	
R218, R219		RS1/16S102J	RS1/16S681J	
R222		RS1/16S472J	RS1/16S103J	
R227		RS1/16S103J	RS1/16S183J	
R601		Not used	RS1/16S561J	
R602, R604		Not used	RS1/16S221J	
R603		Not used	RS1/16S472J	
R606		Not used	RS1/16S121J	
R607		Not used	RS1/16S473J	
0001 FM FRONT END		AXF7003	AXF7005	
0002 MW RF TUNING BLOCK		AXX7071	AXX7072	

B 5.1CH I/O ASSY

AWX7627 and AWX7568 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7568	AWX7627	
	IC1104 Q1157, Q1158 C1101-C1106, C1117-C1122, C1161-C1165 C1115, C1116 C1131, C1132 C1139, C1140 C1151-C1156 C1166 R1107, R1108 R1115, R1116 R1125, R1126 R1157, R1158 R1165, R1166 R1173, R1174 R1181, R1182, R1189, R1190 JA1113, JA1163	UPC4570G2 HN1C03F Not used CEAT4R7M50 CEAT100M50 CKSQYB103K50 Not used Not used RS1/10S331J RS1/10S104J RS1/10S474J RS1/10S271J RS1/10S121J RS1/10S101J RS1/10S103J AKB7046	Not used Not used CCSQCH101J50 Not used Not used Not used CCSQCH331J50 CCSQCH471J50 Not used Not used Not used Not used Not used Not used Not used Not used	

C INPUT ASSY

AWX7600 and AWX7573 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7573	AWX7600	
	Q1001, Q1002 D1051 C1001-C10012 C1051 R1013-R1016 R1017, R1018 R1051 CN1002 JA1004 JA1051	2SC2878 1SS133 Not used CGCYX103M16 RD1/4PU102J RD1/4PU473J RD1/4PU102J KP200TA6L AKB7046 AKN7014	Not used Not used CCCSL221J50 Not used Not used Not used Not used Not used Not used Not used	

G S VIDEO ASSY

AWX7616 and AWX74580 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7580	AWX7616	
	IC852 C854 C855, C856 R855 R868, R869, R870 R883, R885 R884	BU4053BCF CCSQCH151J50 CKSQYB103K50 RS1/10S103J RS1/10S102J Not used RS1/10S0R0J	Not used Not used Not used Not used Not used RS1/10S0R0J Not used	*

Note *: These parts are used for VSX-33TX/KUXJ1 C.A. Refer to service manual RRV2351.

D MAIN CONTROL ASSY

AWX7625 and AWX7560 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7560	AWX7625	
	IC101 IC103 IC104 IC251 Q905 D251, D252 D253 C101-C110 C113, C114 C115, C116 C117, C118 C121, C122 C123, C124 C125, C126 C127, C128 C133, C134, C911 C135, C136 C145, C146, C169, C170, C181, C182 C157, C158 C191-C193 C252 C253-C256 C291 R111, R112 R113, R114, R117, R118, R129, R130 R139, R140, R203, R204 R115, R116 R119, R120 R121, R122 R123, R124 R125, R126, R133, R134 R131, R132 R135, R136, R934, R944, R945, R946 R990, R991 R933 R211-R215, R252, R253 R251 R254 R255 R295 R921 CN0103 CN0906 JA151	M5220FP TC9164AF NJM4558MD Not used DTA124EK Not used Not used Not used CEAT100M50 CCSQCH181J50 CEAT470M25 CQMA822J50 CQMA242L50 CEAT2R2M50 CEJQ101M25 CKSRYB103K50 CEAT1R0M50 Not used Not used CCSRCH101J50 CCSQCH101J50 Not used Not used Not used CEJA101M16 RS1/10S0R0J RS1/10S104J RS1/10S104J RS1/10S331J RS1/10S511J RS1/10S394J RS1/10S303J RS1/10S471J RS1/16S474J RS1/16S102J RS1/10S102J RS1/16S473J Not used Not used Not used Not used Not used Not used AKP7057 52045-0445 VKB1060	Not used Not used Not used NJM4558MD Not used 1SS355 UDZS5.1B CCSQCH221J50 Not used Not used Not used Not used Not used Not used Not used Not used Not used CCSRCH101J50 CCSQCH101J50 Not used CEAT470M25 CKSRYB103K50 CEJQ101M16 Not used Not used Not used Not used Not used Not used Not used Not used Not used Not used RS1/16S104J RS1/16S474J RS1/16S102J RS1/16S393J RS1/10S0R0J RS1/16S103J Not used Not used Not used	

E A-CONNECTION ASSY

AWX7619 and AWX7566 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7566	AWX7619	
	IC1501	TC9215AF	Not used	
	IC1502	TC9459F	Not used	
	IC1503	NJM4558MD	Not used	
	IC1551	M62429FP	Not used	
	D1551	UDZS5.1B	Not used	
	C1501- C1504, C1517, C1518	CKSQYB103K50	Not used	
	C1507, C1508, C1515, C1516, C1551-C1553	CEAT100M50	Not used	
	C1511, C1512	CCSQCH560J50	Not used	
	C1541- C1543, C1554, C1555	CCSQCH101J50	Not used	
	C1556, C1557	CEAT1R0M50	Not used	
	R1503, R1504, R1511, R1512	RS1/10S104J	Not used	
	R1505, R1506	RS1/10S103J	Not used	
	R1507, R1508	RS1/10S472J	Not used	
	R1509, R1510	RS1/10S152J	Not used	
	R1541- R1545, R1552, R1553	RS1/10S102J	Not used	
	R1551	RS3LMF391J	Not used	
	R1554, R1555	RS1/10S103J	Not used	
	R1569, R1570, R1571, R1572, R1573, R1574	RD1/10S0R0J	Not used	
	CN1552	AKP7068	Not used	
	CN1554	KM200TA6	Not used	

F COMPOSITE ASSY

AWX7617 and AWX7581 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7581	AWX7617	
	IC731	NJM2279	Not used	
	IC751	TC4W53FU	Not used	
	Q701	2SA933S	Not used	
	D731	DAN202K	Not used	
	C707	CCSQCH181J50	Not used	
	C712, C713, C734, C735	CEAT101M10	Not used	
	C714, C732, C733, C736, C785, C786	CKSQYB473K50	Not used	
	C715	CCSQCH150J50	Not used	
	C737	CCSQCH470J50	Not used	
	R707	RS1/10S750J	Not used	
	R712	RS1/10S183J	Not used	
	R713	RS1/10S103J	Not used	
	R714	RS1/10S101J	Not used	
	R715	RD1/2VM201J	Not used	
	R733- R735, R766	RS1/10S102J	Not used	
	R767	RS1/10S104J	Not used	*
	JA703 2P PIN JACK	Not used	VKB1048	
	703 2P PIN JACK	AKB7017	Not used	

Note * : These parts are used for VSX-33TX-KUXJ1CA. Refer to service manual RRV2351.

H V-CONNECTION ASSY

AWX7717 and AWX7567 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7567	AWX7717	
	Q601	KRC103M	Not used	
	C601	CKSQYB103K50	Not used	
	R601	RS1/10S103J	Not used	
	CN604	KM200TA10	Not used	

I F V-AMP ASSY

AWX7723 and AWX7578 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7578	AWX7723	
	CN2201 3P CONNECTOR	Not used	KM250MA3	

L F SP / PS ASSY

AWX7735 and AWX7571 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7571	AWX7735	
	D3001, D3002	D5SBA20	D5SBA20(B)	
	D3052, D3054, D3056, D3058, D3059	Not used	1SS133	
	D3201	Not used	MTZJ5.1B	
	C3001, C3002 (22000μF/56V)	ACH7147	ACH7145	
	C3101- C3105	CFTYA104J50	CFTYA224J50	
	C3106- C3110	Not used	CFTYA224J50	
	C3111- C3117	CQHA102J2A	CQHA332K2E	
	C3119	Not used	CKPUYB221K50	
	L3111, L3112	ATX1012	Not used	
	R3111	Not used	RD1/4PU4R7J	
	R3133, R3134	Not used	RS1LMF471J	
	Heat Sink	ANH1021	Not used	
	CN3002 6P PLUG	Not used	KM200TA6	
	CN3101	AKE7058	AKE7059	
	CN3102	AKE7060	AKE7061	

O F TRANS 2-2 ASSY

AWX7720 and AWX7565 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7565	AWX7720	
	C5501	CQMA224J50	Not used	
	C5502	CQMA224J50	Not used	
	R5501	RD1/4MUF100J	Not used	

QF PRIMARY ASSY

AWX7596, AWX7604 and AWX7563 are constructed the same except for the following:

Mark	Symbol and Description	Part No.			Remarks
		AWX7563	AWX7596	AWX7604	
	C6011, C6012, C6013 R6001 J0032 T6001 6004 6001 3P CONNECTOR	Not used RCN1080 Not used ATT7043 AKP7136 Not used	CCCSL101K2H Not used D20PYY0330E ATT7040 AKP7135 51048-0300	CCCSL101K2H Not used D20PYY0330E ATT7040 Not used 51048-0300	

SF DISPLAY ASSY

AWX7601 and AWX7574 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWX7574	AWX7601	
	IC7051 IC7401 Q7053 Q7054 Q7401 Q7402 Q7403 D7054- D7057 L7401 C7053 C7401 C7402 C7403, C7404 C7405 C7406, C7407 C7408 C7409 R7047 R7056 R7057 R7058, R7061 R7401, R7407, R7408 R7403 R7404 R7405 R7406 CN7007 X7401 CRYSTAL RESONATOR (4.332MHz)	TC7W53FU Not used FMA1A DTC124EK Not used Not used Not used 1SS355 Not used CKSQYB153K50 Not used Not used Not used Not used Not used Not used Not used RS1/10S223J RS1/10S223J RS1/10S392J RS1/10S103J Not used Not used Not used Not used Not used 52045-0445 Not used	Not used BU1923 Not used Not used 2SA1037 DTC143ES 2SC2412K Not used LFA2R2J Not used CKSQYB472K50 CEAT2R2M50 CKSQYB102K50 CEAT101M10 CCSQCH270J50 CKSQYB561K50 CEAT1R0M50 RS1/10S103J Not used Not used RS1/10S473J RS1/10S333J RS1/10S104J Not used ASS7004	

YF DSP ASSY

AWX7626 and AWX7561 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWX7561	AWX7626	
	IC9103 IC9602- IC9604, IC9701- IC9705 IC9706, IC9707 Q9611, Q9612 C9102, C9108, C9151, C9152, C9162 C9110 C9117, C9562 C9120 C9121, C9124 C9122 C9123, C9125 C9126 C9127, C9529 C9167 C9203- C9207, C9603, C9604, C9615, C9616 C9627, C9628, C9811, C9813 C9551, C9740, C9801, C9802, C9812 C9814, C9501, C9516 C9643, C9644, C9770, C9523, C9526 C9705, C9706, C9759, C9760 C9713, C9714, C9727, C9728, C9739 C9765- C9769 C9745, C9746, C9781, C9782 C9749- C9751, C9752 C9753, C9754 C9755, C9756 C9757, C9758 C9761, C9762 C9763, C9764 C9803, C9805 L9105, L9106 R9106 R9120, R9122 R9121, R9749, R9750 R9123, R116 R9154 R9173 R9577 R9590 R9737- R9742, R9753, R9754, R9763, R9764 R9743- R9746, R9755, R9756 R9747, R9748 R9751, R9752 R9757, R9758 R9759, R9760 CN9804 JA9156	CS4391 UPC4570G2 UPC4570G2 2SC3326(AB) CEJA470M16 CEJAR47M50 CEJA470M16 CEJA470M16 CKSRYB103K50 CCSRCH471J50 CEJA1R0M50 CKSRYB104K16 CEJA2R2M50 CKSQYF104Z50 CEJA4R7M50 CEJA4R7M50 CEJA101M10 CEJA101M10 CEJA101M10 CEJA100M25 CKSQYF104Z25 CEJA330M10 CEJA330M10 CKSRYB102K50 CCSRCH221J50 CEJA330M10 CKSRYB122K50 CCSRCH271J50 CEJA4R7M50 CKSRYB222K50 CEJA470M25 QTL1013 RS1/16S331J RS1/10S681J RS1/10S562J RS1/10S182J RS1/10S104J RS1/10S0R0J RS1/16S331J RS1/16S0R0J RS1/16S153J RS1/16S332J RS1/16S122J RS1/16S822J RS1/16S474J RS1/16S101J S5B-PH-K-S GP1FA551TZ	Not used NJM4558MD Not used Not used CEJQ470M16 CEJQR470M50 CEJQ470M16 Not used Not used Not used Not used Not used CEJQ2R2M50 Not used CEJQ4R7M50 CEJQ4R7M50 CEJQ101M10 CEJQ101M10 CEJQ101M10 CEJQ100M25 Not used CEJQ330M10 CEJQ330M10 Not used Not used Not used Not used Not used Not used Not used Not used RS1/16S101J Not used Not used Not used RS1/10S0R0J Not used Not used RS1/16S331J Not used Not used Not used Not used Not used Not used Not used Not used	

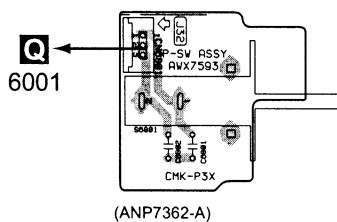
PCB PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
QA	S6801	P-SW ASSY (AWX7593) SWITCHES AND RELAYS	ASG1035		Q3503		2SC4793
					D3504		MTZJ12C
					D3503		MTZJ27D
					D3501, D3502		S5688G
CAPACITORS	C6801, C6802		CGCYX103K25	CAPACITORS	C3501		CEAT471M35
					C3502		CEAT1R0M50
OTHERS	CN6801 3P JUMPER CONNECTOR	52151-0310		RESISTORS	C3503		CKCYF103Z50
					C3504		CEANP471M25
					C3505		CEAT100M50
					Other Resistors		RD1/4PU□□□□
FAN DRIVER ASSY (AWX7599)				OTHERS	CN3502 3P PLUG		KM250MA3L
					CN3501 6P SOCKET		KP200TA6L
SEMICONDUCTORS	IC3501 (1.25A) Q3501 Q3502						

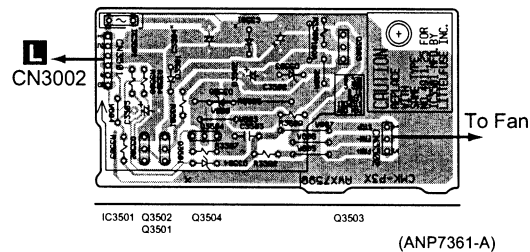
2. PCB CONNECTION DIAGRAM

2.1 P-SW and FAN DRIVER ASSYS

QA P-SW ASSY



Z FAN DRIVER ASSY



SIDE A

QA Z

2.2 TRANS 2-1, TRANS 2-2 and TRANS 1 ASSYS

Line Voltage Selection

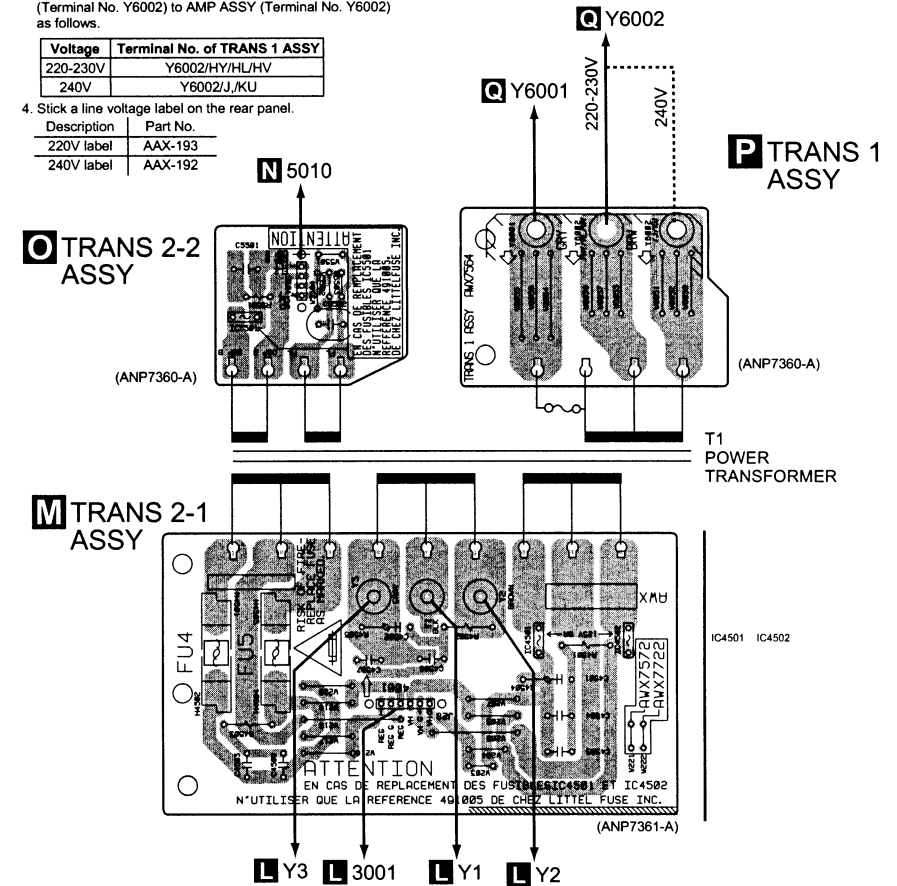
Line Voltage can be changed by the following modification:

1. Disconnect the AC power cord.
2. Remove the cover.
3. Change the connection wire from TRANS 1 ASSY (Terminal No. Y6002) to AMP ASSY (Terminal No. Y6002) as follows.

Voltage	Terminal No. of TRANS 1 ASSY
220-230V	Y6002/HY/HL/HV
240V	Y6002/J,KU

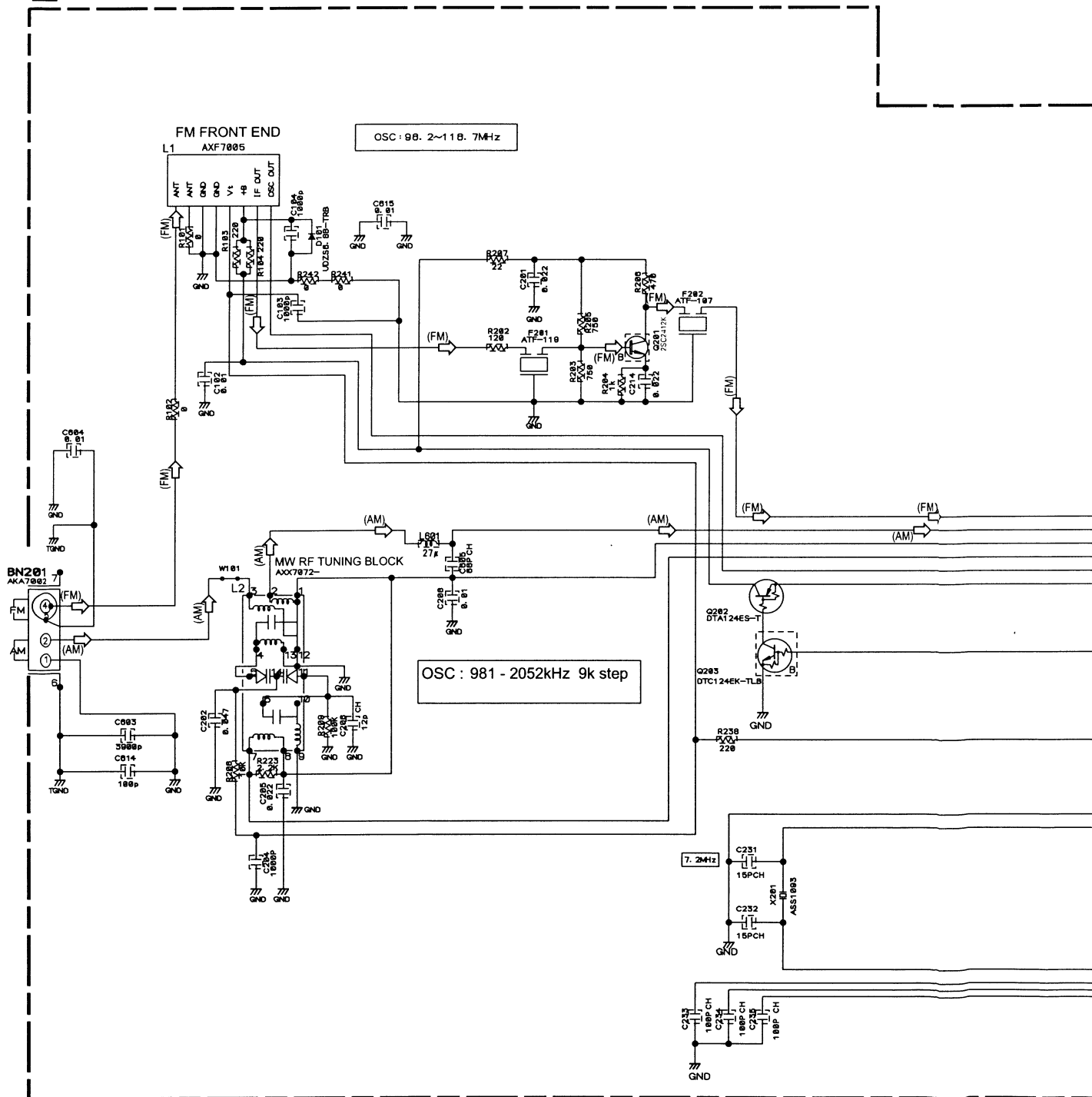
4. Stick a line voltage label on the rear panel.

Description	Part No.
220V label	AAX-193
240V label	AAX-192



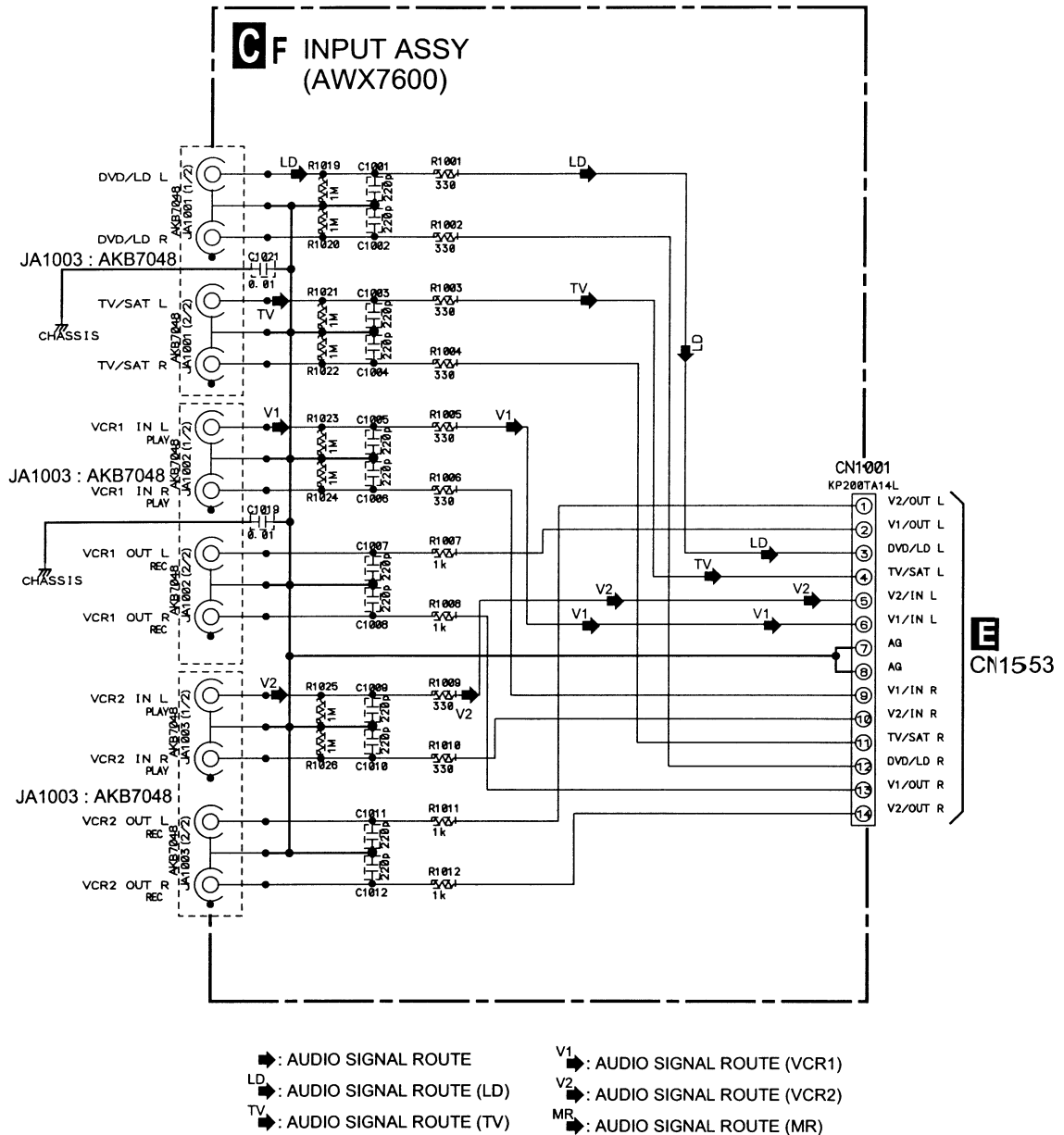
AF

AF FM/AM TUNER UNIT (AXQ7232)

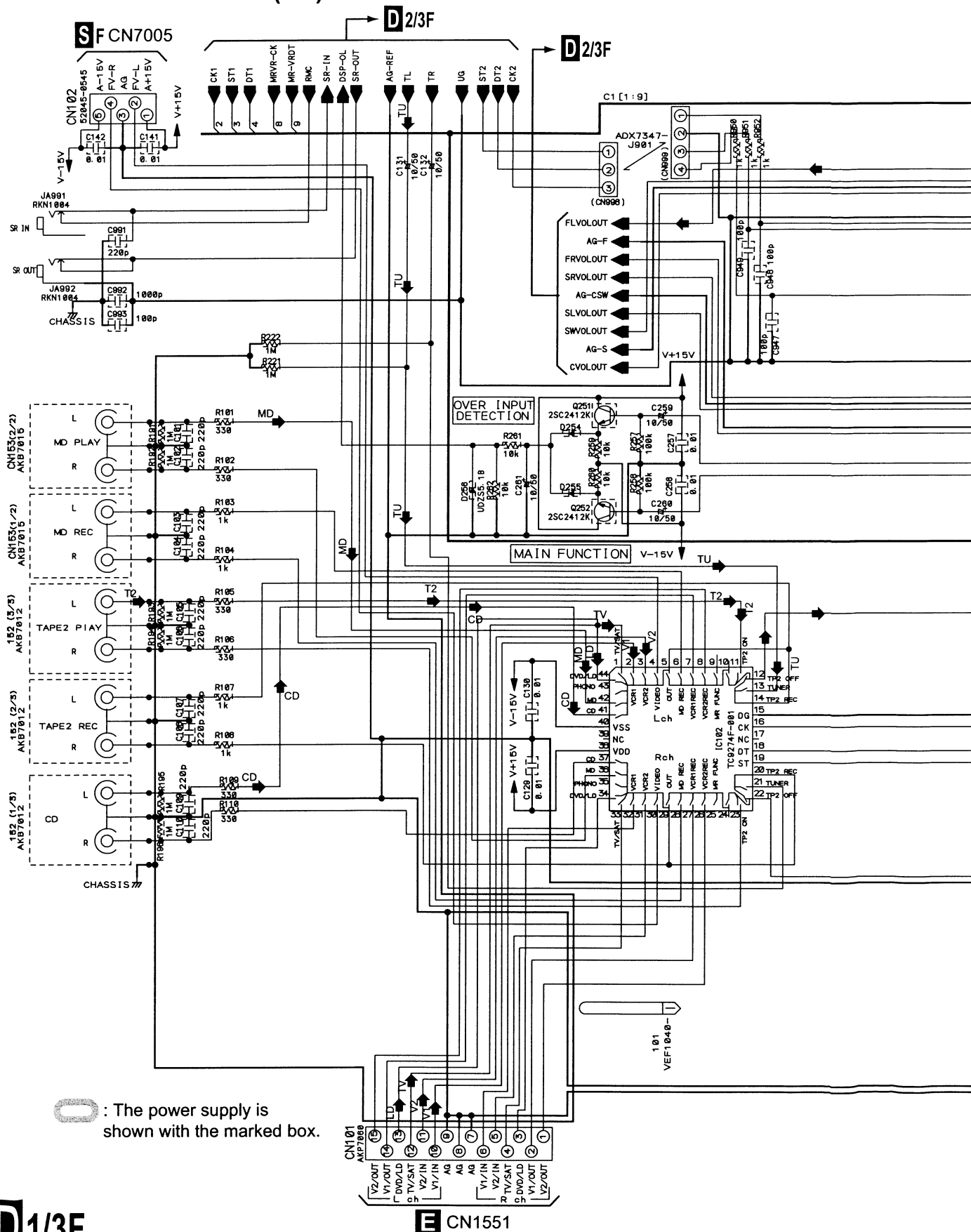


16



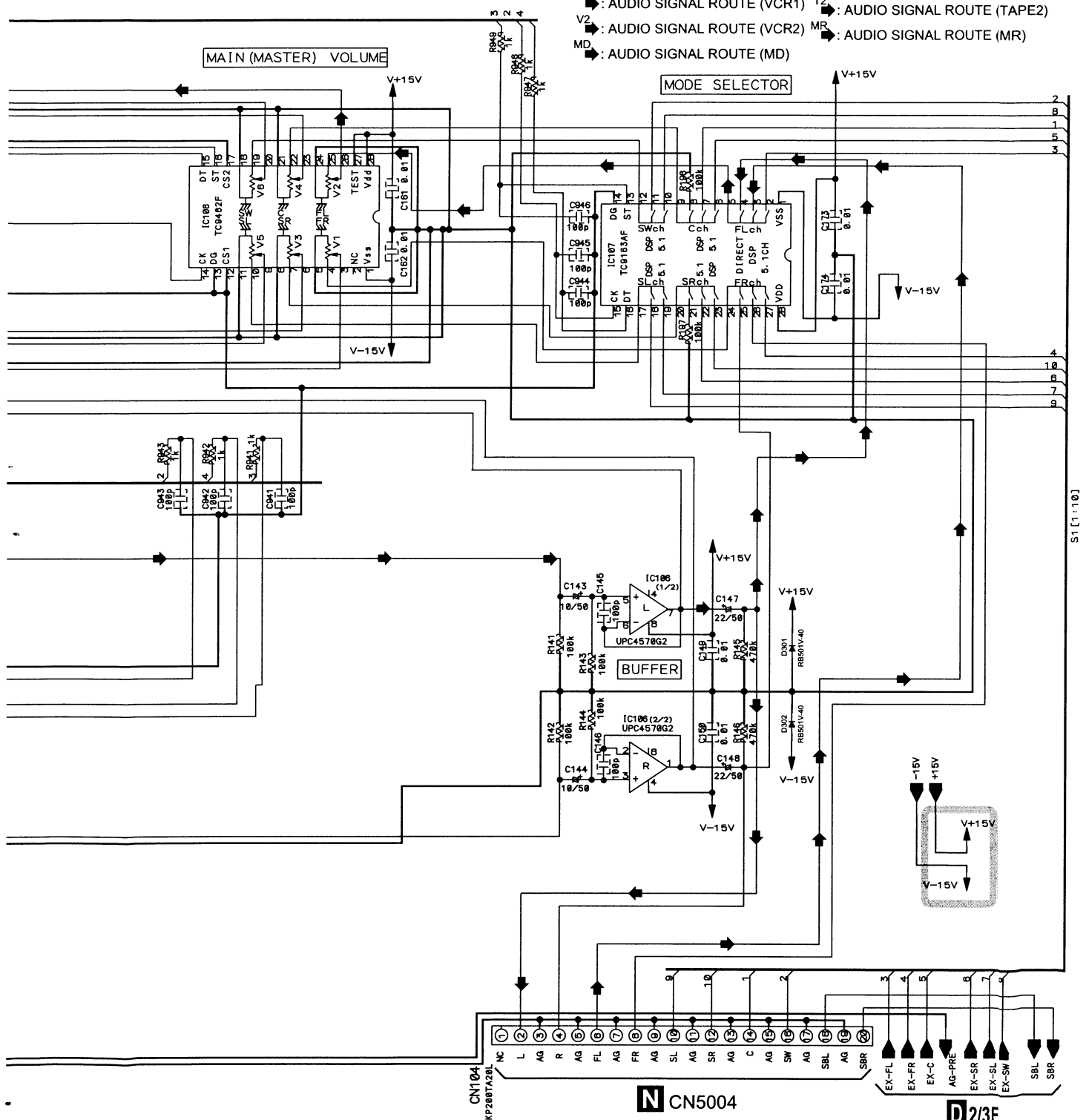


3.2 MAIN CONTROL ASSY (1/3)

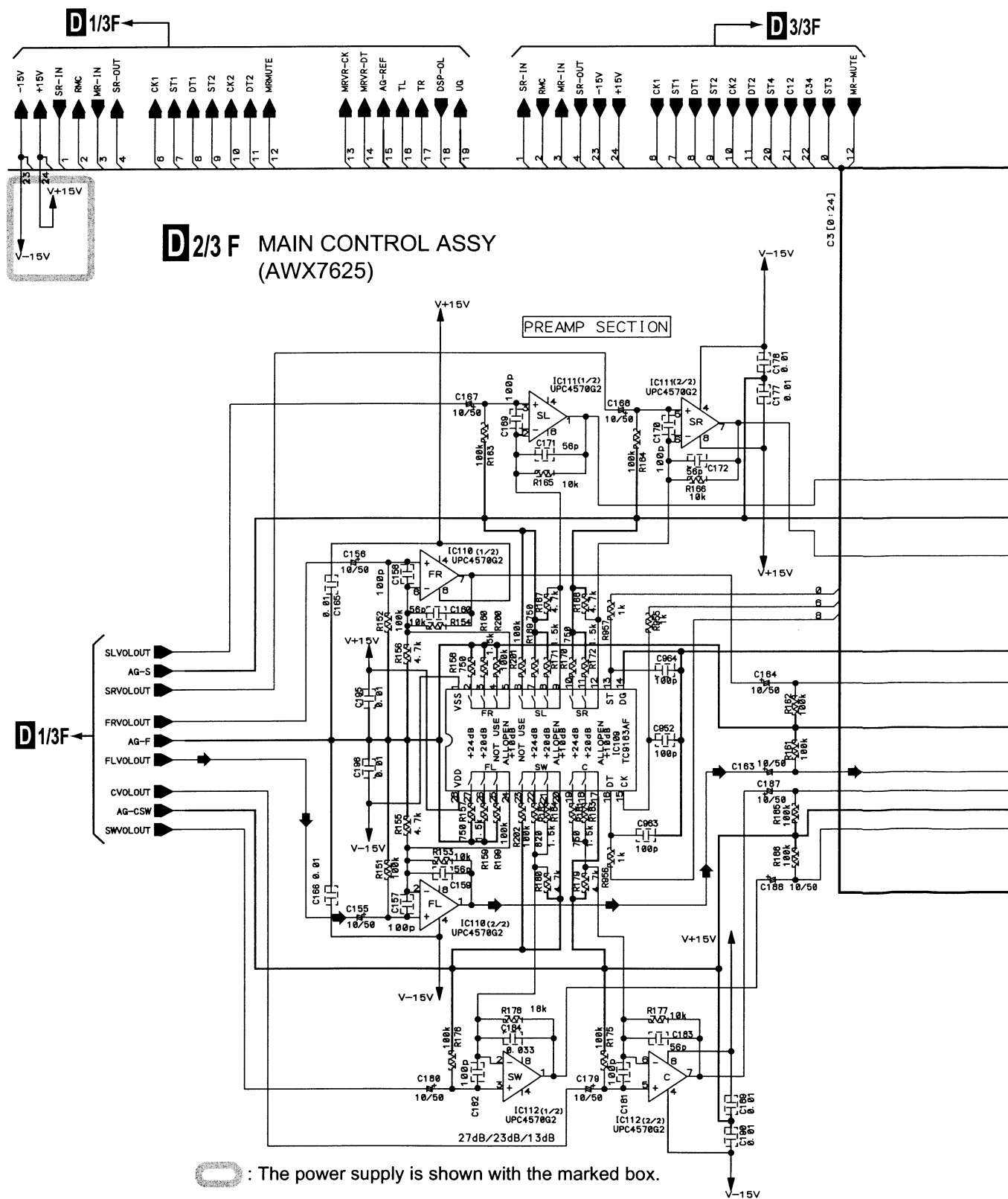


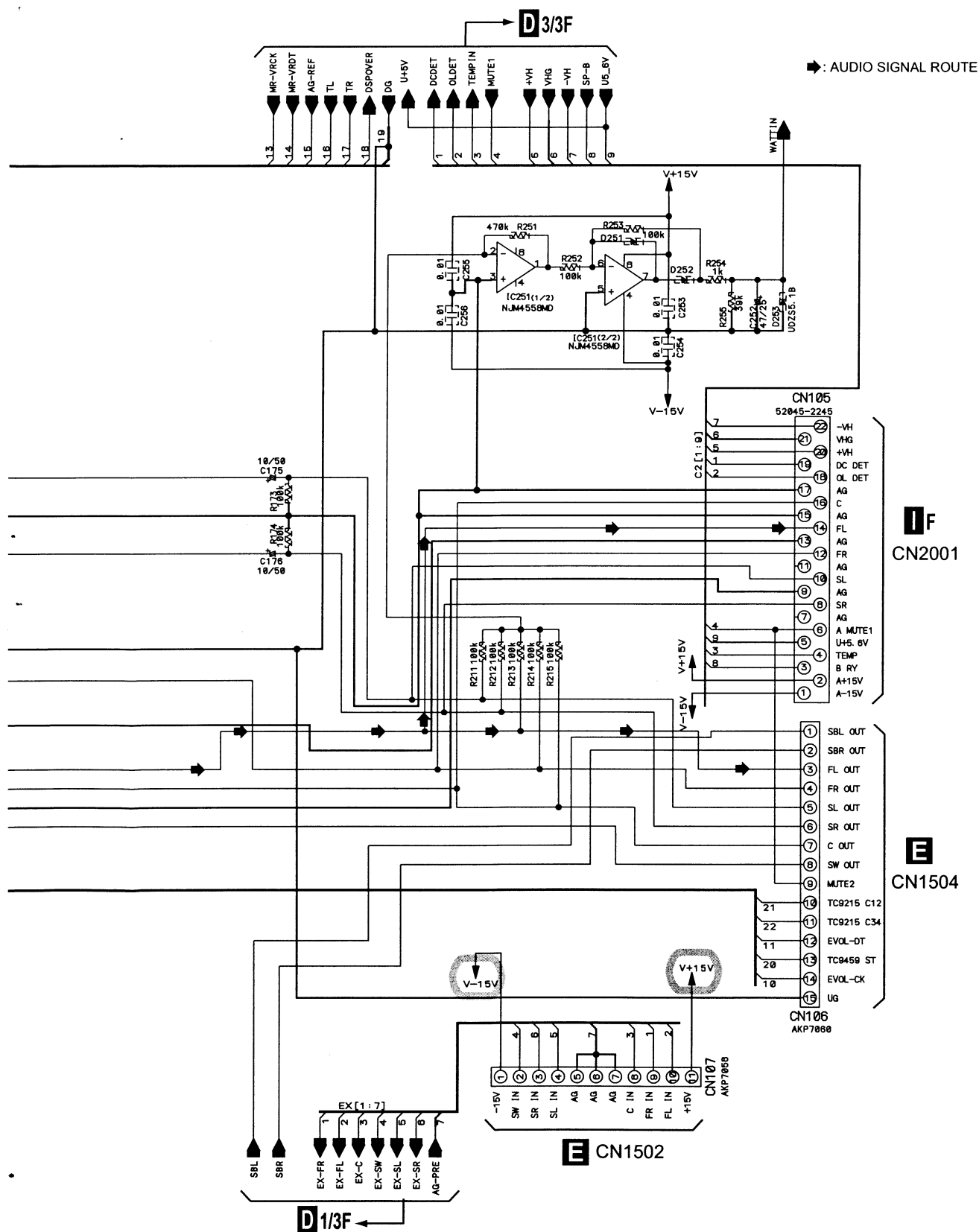
D1/3F MAIN CONTROL ASSY
(AWX7625)

- LD : AUDIO SIGNAL ROUTE (LD)
- TV : AUDIO SIGNAL ROUTE (TV)
- V1 : AUDIO SIGNAL ROUTE (VCR1)
- V2 : AUDIO SIGNAL ROUTE (VCR2)
- MD : AUDIO SIGNAL ROUTE (MD)
- P : AUDIO SIGNAL ROUTE (PHONO)
- TU : AUDIO SIGNAL ROUTE (TUNER)
- CD : AUDIO SIGNAL ROUTE (CD)
- T2 : AUDIO SIGNAL ROUTE (TAPE2)
- MR : AUDIO SIGNAL ROUTE (MR)



3.3 MAIN CONTROL ASSY (2/3)





➡: AUDIO SIGNAL ROUTE

I_F
CN2001

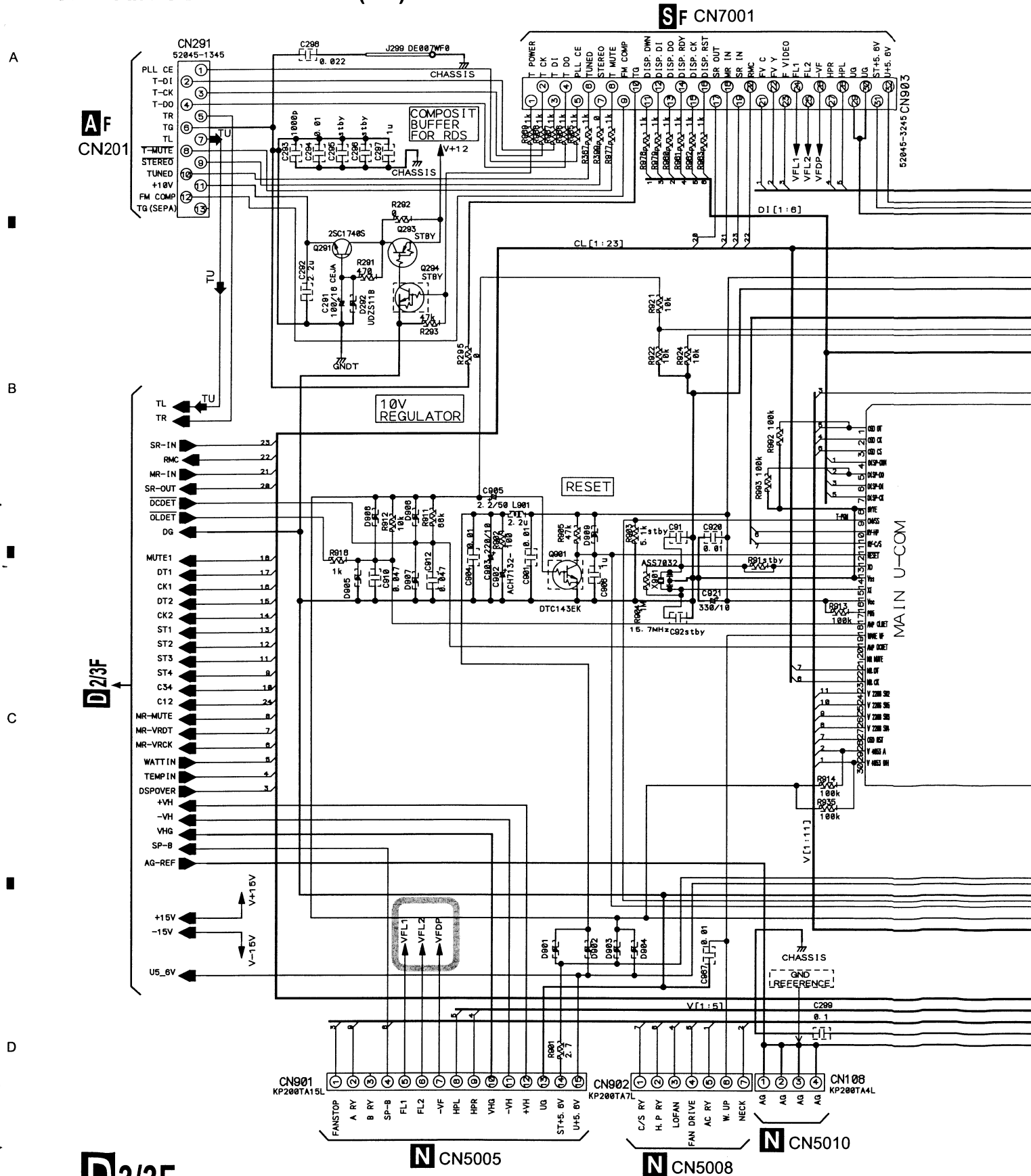
E
CN1504

E CN1502

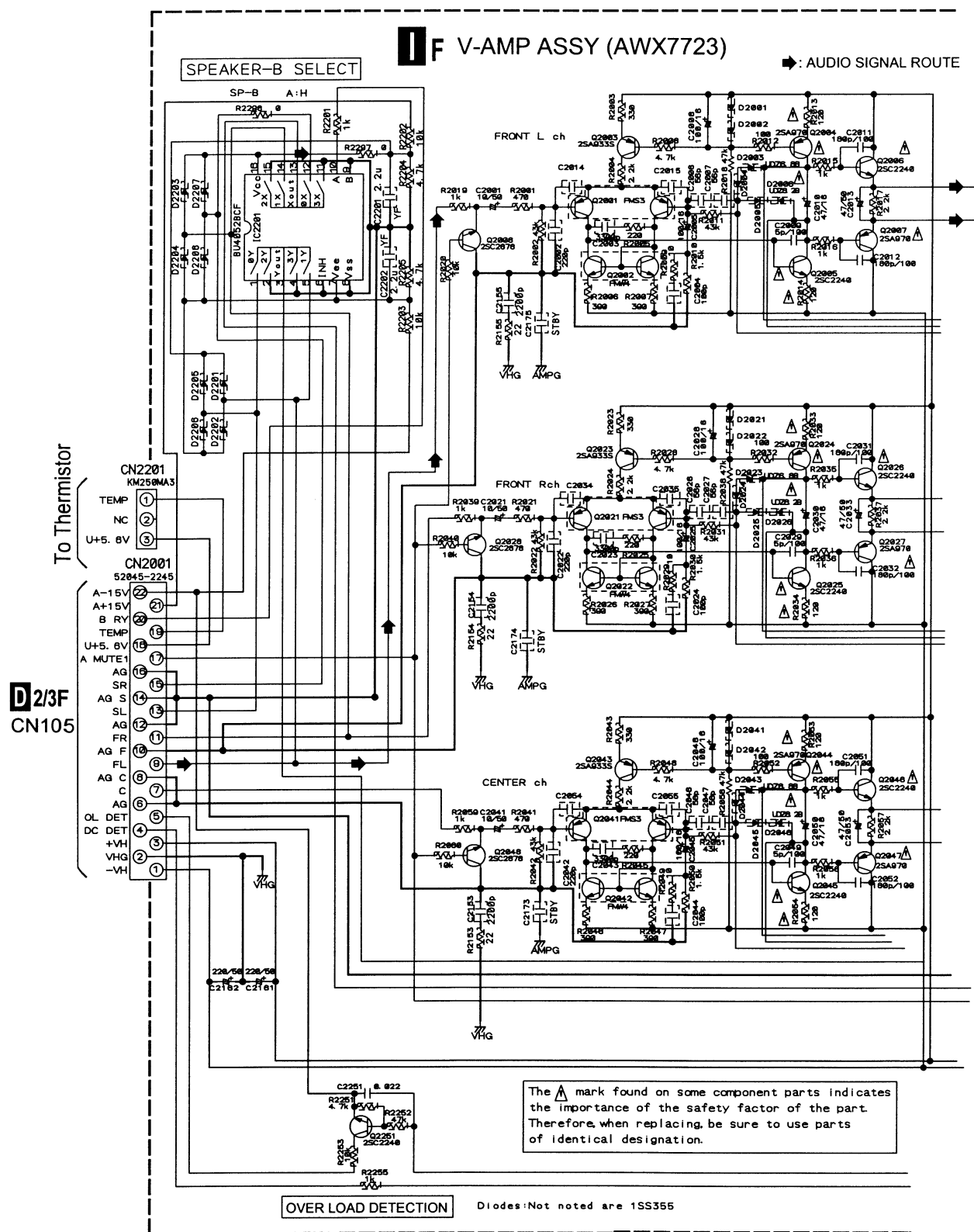
D 1/3F

D2/3F

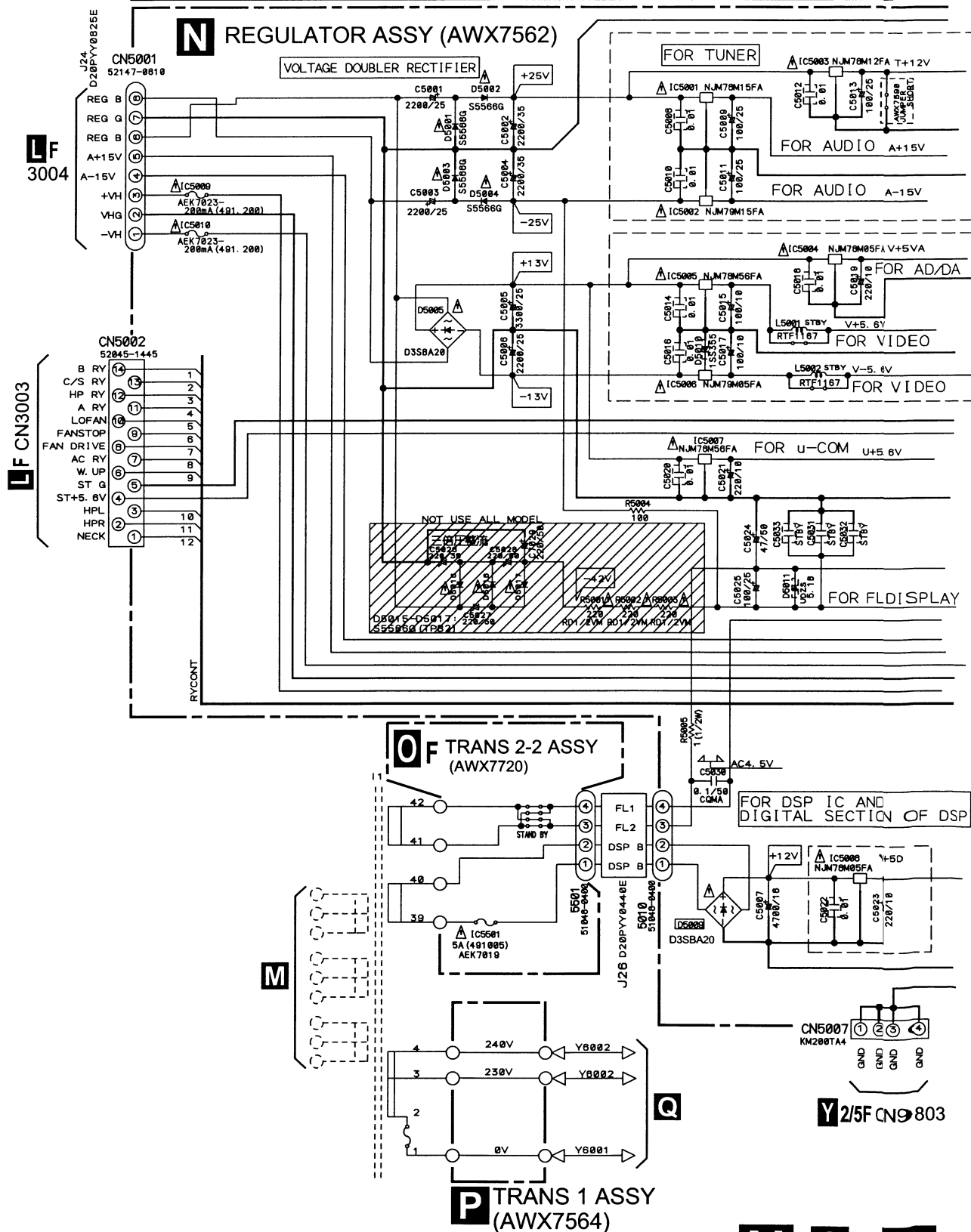
3.4 MAIN CONTROL ASSY (3/3)



3.5 V-AMP, REGULATOR, TRANS 2-2 and TRANS 1 ASSYS



**CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE ONLY WITH SAME TYPE NO. 491005 MFD, BY
LITTELFUSE INC. FOR IC5501 (AEK7019).**



N O F P

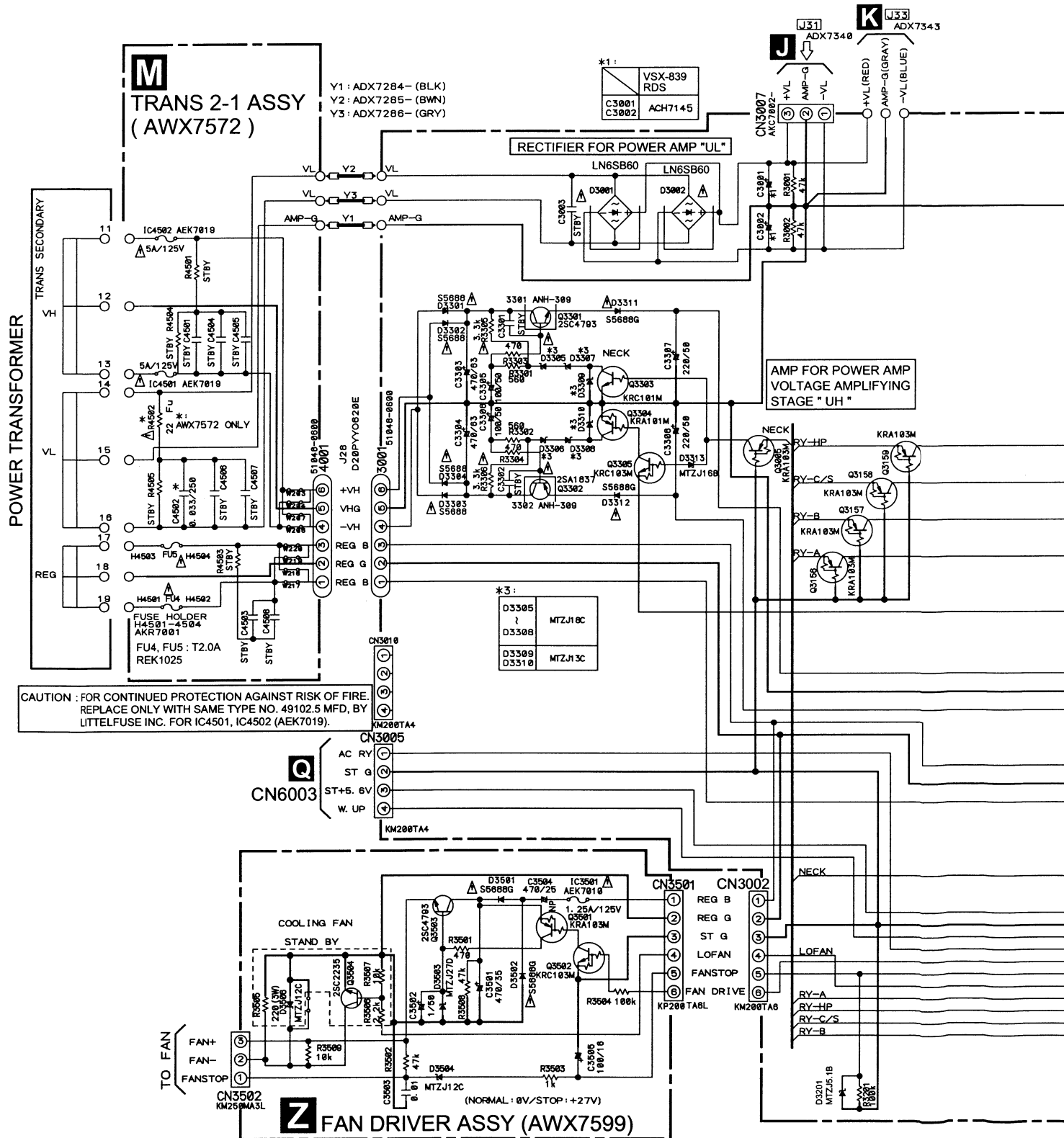
3.6 TRANS 2-1, FAN DRIVER and SP/PS ASSYS

A

B

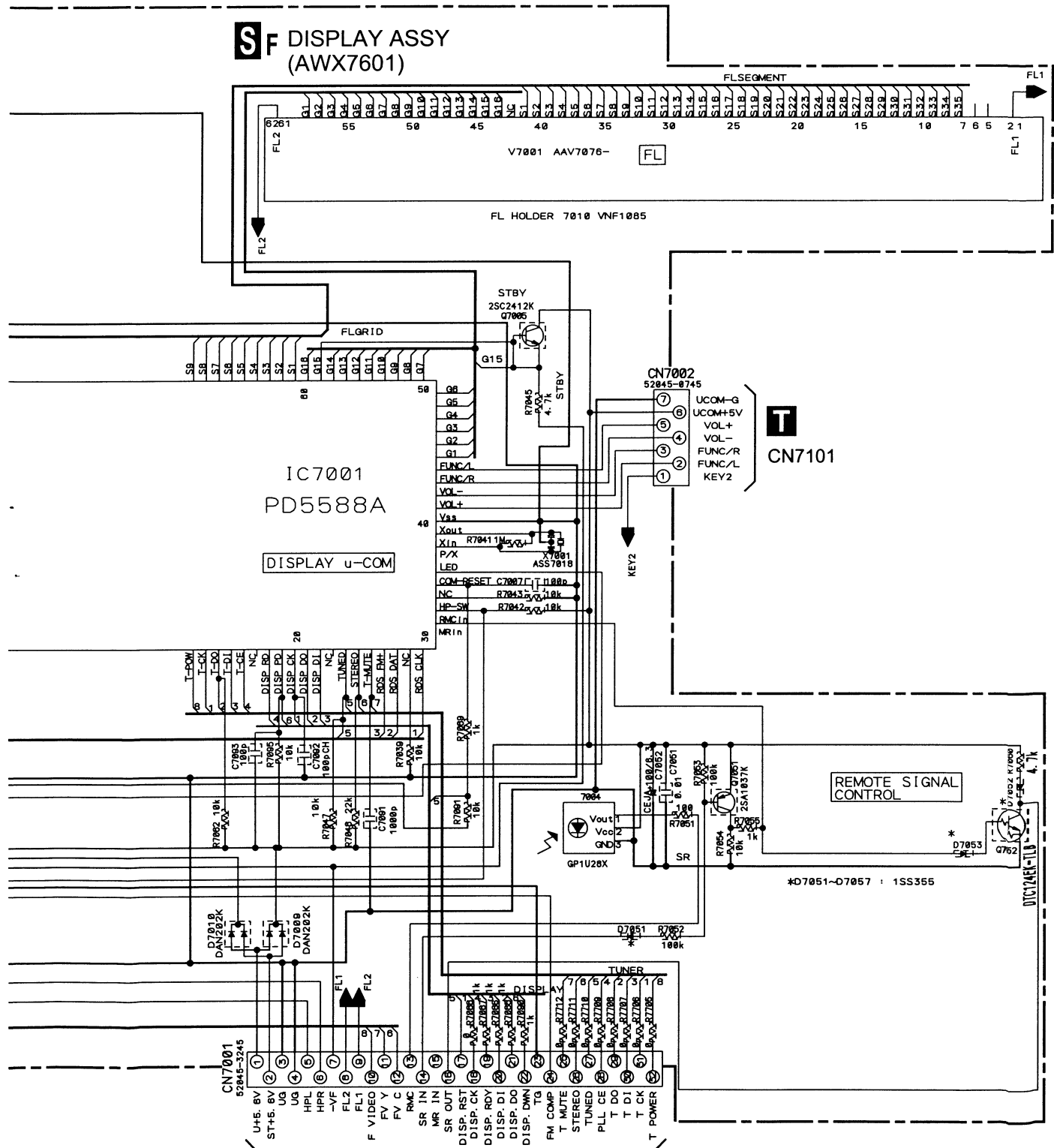
C

D



3.7 DISPLAY ASSY

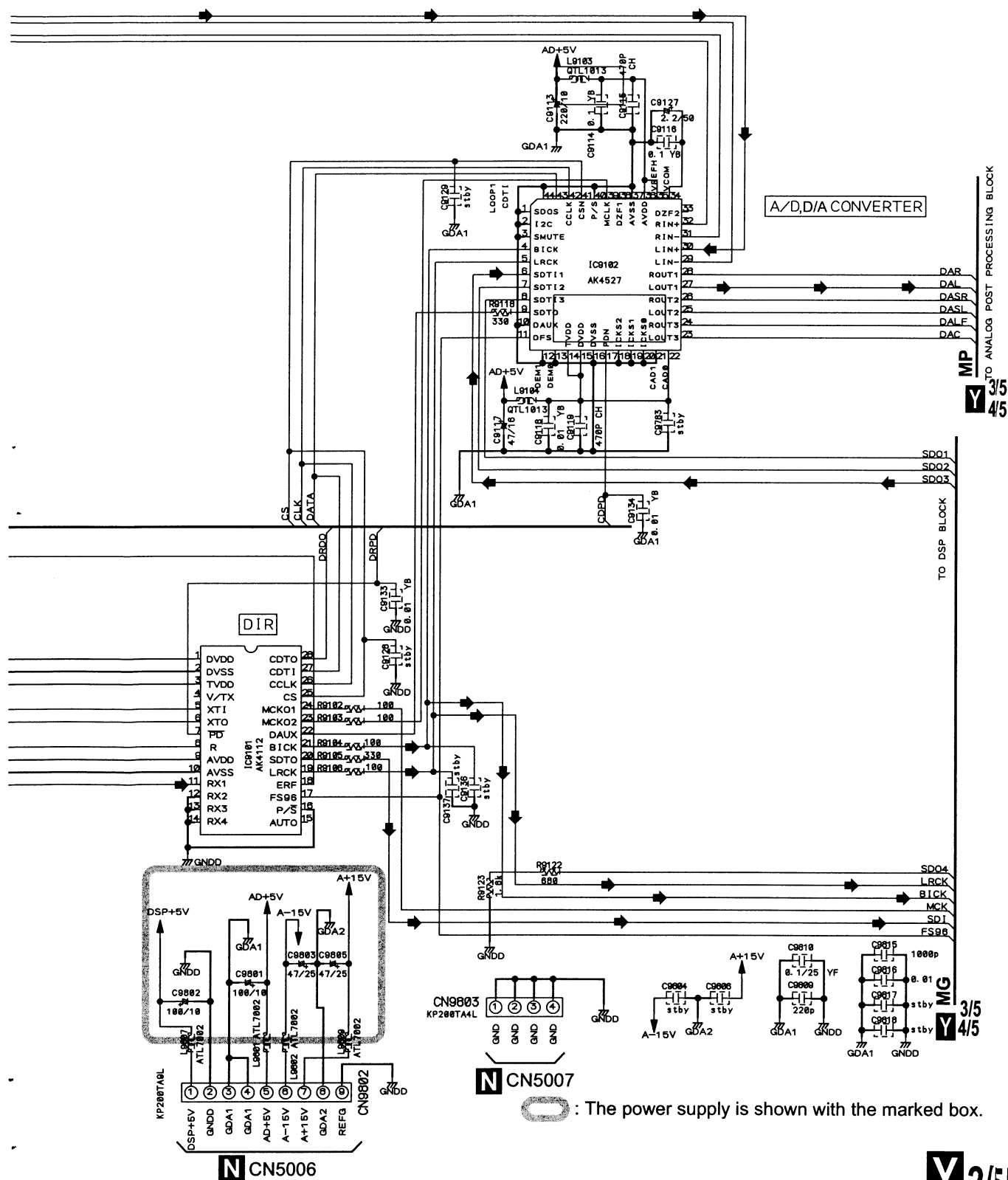




D/3/FCN903

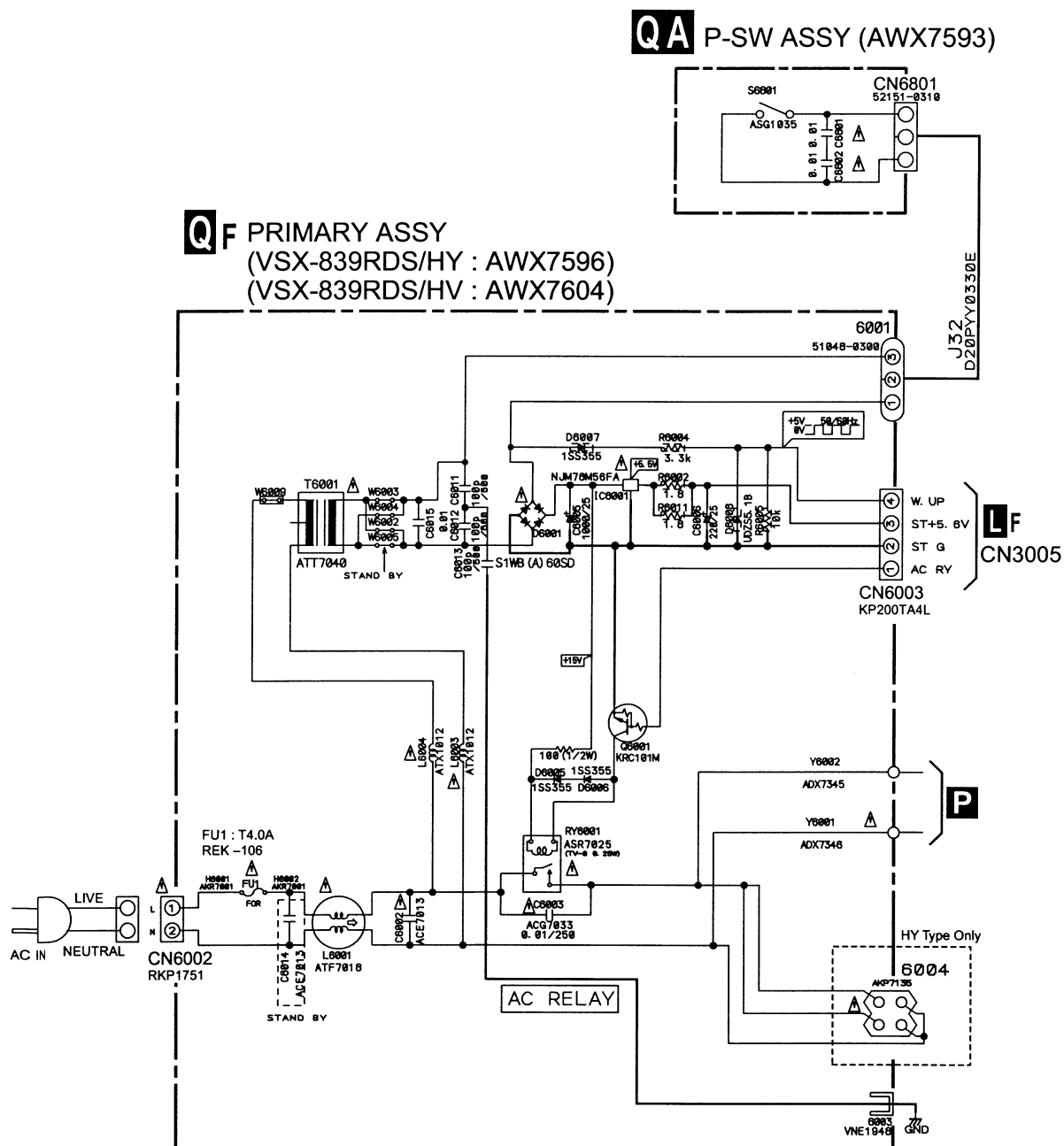


➡: AUDIO SIGNAL ROUTE



: The power supply is shown with the marked box.

3.9 PRIMARY and P-SW ASSYS



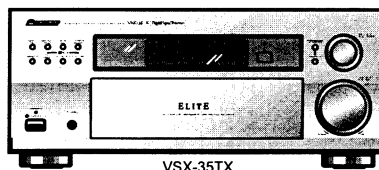
The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

• NOTE FOR FUSE REPLACEMENT

CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS ONLY.

Service Manual

Pioneer



ORDER NO.
RRV2351

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-35TX VSX-33TX

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model		Power Requirement	Remarks
	VSX-35TX	VSX-33TX		
KUXJI/CA	○		AC120V	
KUXJI/CA		○	AC120V	

CONTENTS

1. SAFETY INFORMATION	2	7. GENERAL INFORMATION	90
2. EXPLODED VIEWS AND PARTS LIST	3	7.1 DISASSEMBLY	90
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM	8	7.2 PARTS	92
4. PCB CONNECTION DIAGRAM	48	7.2.1 IC	92
5. PCB PARTS LIST	76	7.2.2 DISPLAY	97
6. ADJUSTMENT	89	7.3 REMOTE CONTROL UNIT	100
		8. PANEL FACILITIES AND SPECIFICATIONS	105

PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS SERVICE, INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE N.V. Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
©PIONEER ELECTRONIC CORPORATION 2000

T - ZZR AUG. 2000 Printed in Japan

1. SAFETY INFORMATION

This service manual is intended for qualified service technicians ; It is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.
Health & Safety Code Section 25249.6 – Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols  (fast operating fuse) and/or  (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible  (fusible de type rapide) et/ou  (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

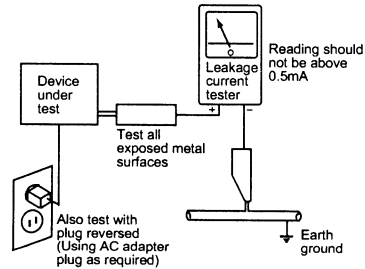
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a Δ on the schematics and on the parts list in this Service Manual.

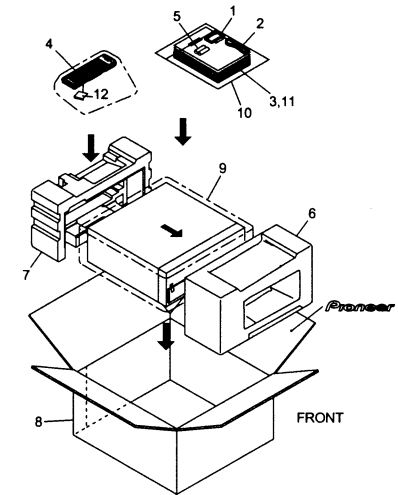
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
● The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
● Screws adjacent to ▼ mark on the product are used for disassembly.

2.1 PACKING



(1) PACKING PARTS LIST

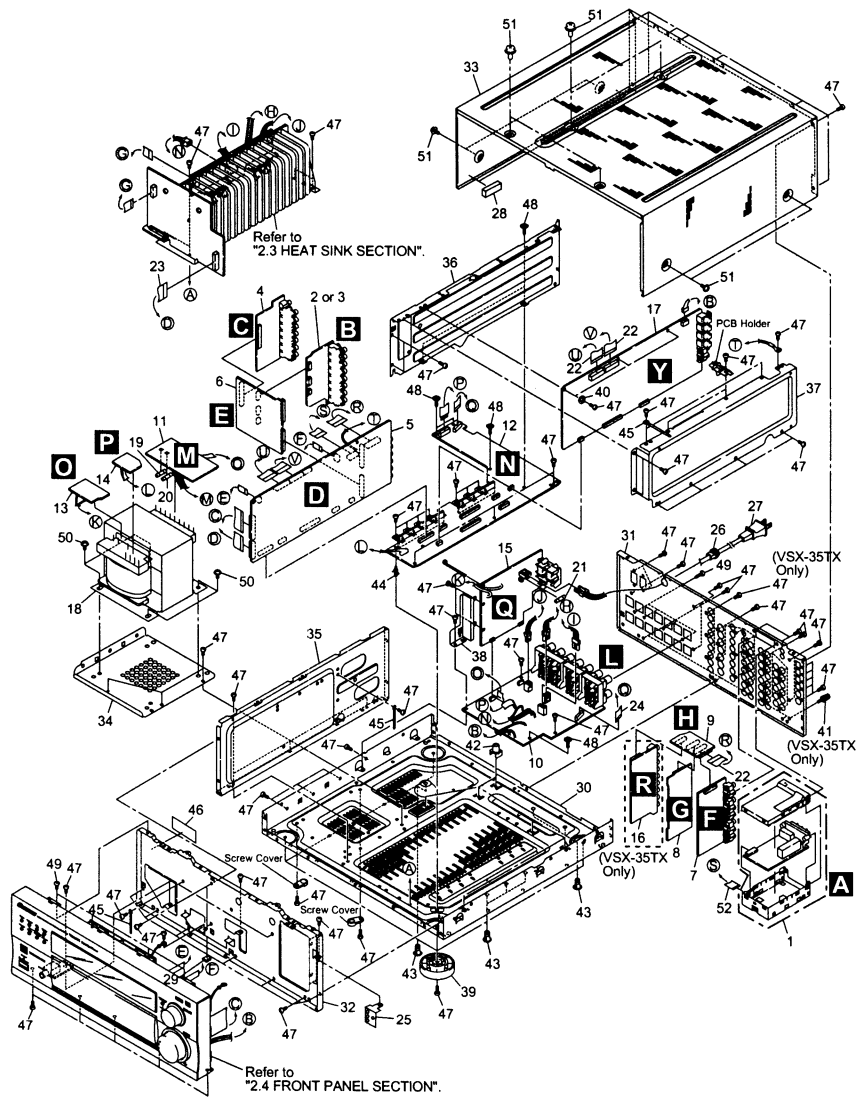
Mark	No.	Description	Part No.
	1	AM Loop Antenna	ATB7009
	2	FM Wire Antenna	ADH7004
	3	Operating Instructions (English)	See Contrast table (2)
	4	Remote Control Unit	See Contrast table (2)
NSP	5	Alkaline Dry Cell Battery (LR6, AA)	VEM1021
	6	Front Pad 35	AHA7287
	7	Rear Pad 35	AHA7288
	8	Packing Case	See Contrast table (2)
	9	Packing Sheet	AHG7010
NSP	10	Polyethylene Bag (230 × 340 × 0.03)	Z21-038
NSP	11	Warranty Card	ARY7007
	12	Battery Cover	See Contrast table (2)

(2) CONTRAST TABLE

VSX-35TX and VSX-33TX are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			VSX-35TX	VSX-33TX	
	3	Operating Instructions (English)	ARB7222	ARB7223	
	4	Remote Control Unit (35TX)	AXD7266	Not used	
	4	Remote Control Unit (33TX)	Not used	AXD7267	
	8	Packing Case 35TX	AHD7860	Not used	
	8	Packing Case 33TX	Not used	AHD7861	
	12	Battery Cover	AZN7841	AZN7826	

2.2 EXTERIOR SECTION



(1) EXTERIOR PARTS LIST

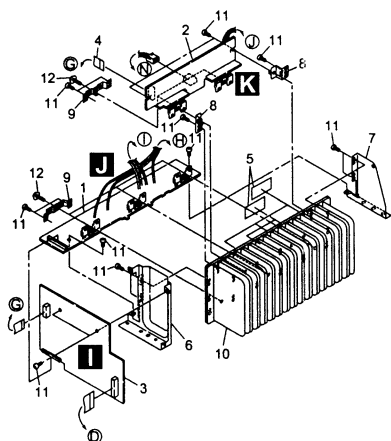
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	FM/AM TUNER Module	AXQ7231		26	Cord Stopper	CM-22C
	2	EX I/O Assy	See Contrast table (2)	Δ	27	Power Cord	VDG1075
	3	5.1CH I/O Assy	See Contrast table (2)		28	Spacer 35 (3 × 10 × 40)	AEB7210
	4	INPUT Assy	See Contrast table (2)		29	Cushion 8 × 8	AED7046
	5	MAIN CONTROL Assy	See Contrast table (2)	NSP	30	Under Base	ANA7113
	6	A-CONNECTION Assy	See Contrast table (2)		31	Rear Panel	See Contrast table (2)
	7	COMPOSITE Assy	See Contrast table (2)	NSP	32	Panel Stay 35	AND7035
	8	S VIDEO Assy	See Contrast table (2)		33	Bonnet 35	AZN7835
	9	V-CONNECTION Assy	See Contrast table (2)		34	Trans Frame 35	ANG7292
	10	SP/PS Assy	See Contrast table (2)		35	Trans Shield 35	ANG7293
	11	TRANS 2-1 Assy	AWX7572		36	DSP Shield 35 A	ANG7295
	12	REGULATOR Assy	AWX7562		37	DSP Shield 35 B	ANG7296
	13	TRANS 2-2 Assy	See Contrast table (2)		38	Bonnet Angle 35	ANG7301
NSP	14	TRANS 1 Assy	AWX7564		39	Insulator	PNW2766
	15	PRIMARY Assy	AWX7563		40	Fiber Washer	VEC1254
	16	COMPONENT Assy	See Contrast table (2)		41	Earth Terminal	See Contrast table (2)
	17	DSP Assy	See Contrast table (2)		42	PCB Mold	AMR2534
Δ	18	Power Transformer (T1)	ATS7284		43	Card Spacer	DNK2769
Δ	19	Fuse (FU4 : 2.5A)	REK1112		44	Locking Card Spacer	PNW2917
Δ	20	Fuse (FU5 : 2.5A)	REK1112		45	Cord Clamp	RNH-184
Δ	21	Fuse (FU1 : 10A)	VEK1029		46	65 Label	ARW7050
	22	20P Flexible Cable/60V	ADD7241		47	Screw	BBZ30P080FZK
	23	22P Flexible Cable/60V	ADD7243		48	Screw	IBZ30P150FCC
	24	14P Flexible Cable/60V	ADD7244		49	Screw	IBZ30P100FCC
	25	SE Angle 35	ANG7335		50	Screw	ABA7066
					51	Screw	FBT40P080FZK
					52	13P Flexible Cable/60V	ADD7242

(2) CONTRAST TABLE

VSX-35TX and VSX-33TX are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			VSX-35TX	VSX-33TX	
	2	EX I/O Assy	AWX7568	Not used	
	3	5.1CH I/O Assy	Not used	AWX7613	
	4	INPUT Assy	AWX7573	AWX7585	
	5	MAIN CONTROL Assy	AWX7560	AWX7610	
	6	A-CONNECTION Assy	AWX7566	AWX7619	
	7	COMPOSITE Assy	AWX7581	AWX7617	
	8	S VIDEO Assy	AWX7580	AWX7616	
	9	V-CONNECTION Assy	AWX7567	AWX7717	
	10	SP/PS Assy	AWX7571	AWX7721	
	13	TRANS 2-2 Assy	AWX7565	AWX7720	
	16	COMPONENT Assy	AWX7582	Not used	
	17	DSP Assy	AWX7561	AWX7611	
	31	Rear Panel 35	ANC7910	Not used	
	31	Rear Panel 33	Not used	ANC7911	
	41	Earth Terminal	AKE-031	Not used	

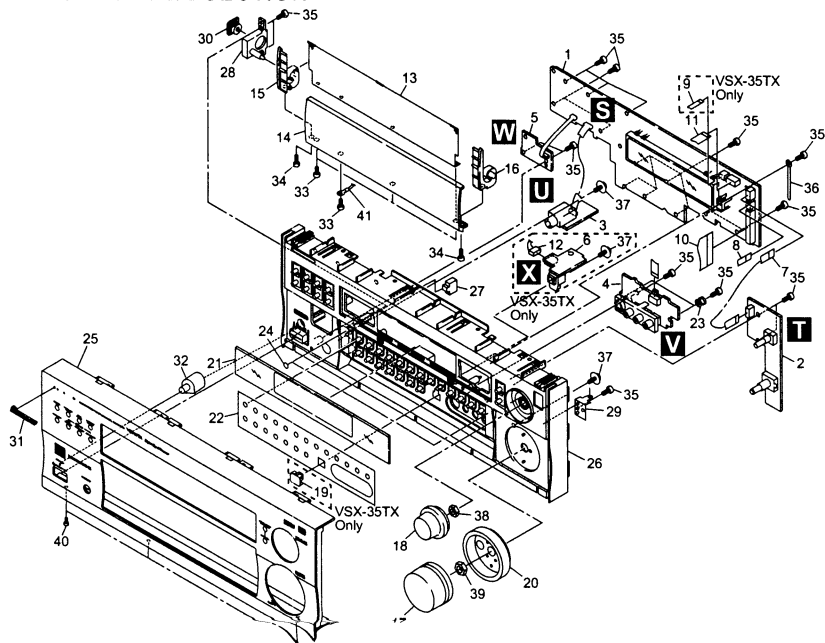
2.3 HEAT SINK SECTION



● HEAT SINK SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	FRONT AMP Assy	AWX7569
	2	REAR AMP Assy	AWX7570
	3	V-AMP Assy	AWX7578
	4	13P Flexible Cable/60V	ADD7242
	5	Mica Sheet 35	AEE7035
	6	H S Angle 35 F	ANG7297
	7	H S Angle 35 R	ANG7298
	8	PCB Angle 35	ANG7299
	9	FET Angle 35	ANG7300
NSP	10	Heat Sink 35	ANH7128
	11	Screw	BBZ30P080FZK
	12	Screw	IBZ30P150FCC

2.4 FRONT PANEL SECTION



(1) FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	DISPLAY Assy	See Contrast table (2)		21	Window	See Contrast table (2)
	2	VOLUME-CONT Assy	AWX7577		22	Door Sheet	See Contrast table (2)
	3	HEADPHONE Assy	AWX7602	NSP	23	Earth Spring 35	ABH7193
	4	FRONT AV Assy	AWX7579		24	Cushion Circle 6B	AED7044
	5	STAND BY Assy	AWX7576		25	Front Panel	See Contrast table (2)
	6	FRONT DIGIN Assy	See Contrast table (2)		26	Panel Base 35	AMB7695
	7	7P Flexible Cable/60V	ADD7236		27	Magnet 35	AMF7007
	8	5P Flexible Cable/60V	ADD7237		28	Door Shaft 35	AMR7295
	9	4P Flexible Cable/60V	See Contrast table (2)		29	SE Angle 35	ANG7334
	10	32P Flexible Cable/60V	ADD7239		30	Damper Assy (100)	AXA7089
	11	8P Flexible Cable/60V	ADD7240		31	Pioneer Badge	PAM1776
	12	5P Shield Wire with Housing	See Contrast table (2)		32	LED Lens	PNW2019
	13	Door Stay 35	AAH7063		33	Screw	BBZ26P080FZK
	14	Door 35	AMB7692		34	Screw	BPZ26P080FMC
	15	Door Hinge 35 L	AMR7291		35	Screw	BPZ30P080FMC
	16	Door Hinge 35 R	AMR7293		36	Cord Clamper	RNH-184
	17	Volume Knob 26	AAB7193		37	Screw	ABA7009
	18	Rotary Knob 35	AAB7226		38	Nut	MK70FUC
	19	Digital Cap 35	See Contrast table (2)		39	Nut	MK90FUC
	20	Volume Ring 26	AAK7623		40	Screw	BBZ30P080FZK
					41	Earth Lead Wire	ADH7022

(2) CONTRAST TABLE

VSX-35TX and VSX-33TX are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			VSX-35TX	VSX-33TX	
	1	DISPLAY Assy	AWX7574	AWX7614	
	6	FRONT DIGIN Assy	AWX7648	Not used	
	9	4P Flexible Cable/60V	ADD7238	Not used	
	12	5P Shield Wire with Housing	ADX7344	Not used	
	19	Digital Cap 35	AAD7576	Not used	
	21	Window 35R	AAK7769	Not used	
	21	Window 33R	Not used	AAK7733	
	22	Door Sheet 35	AAK7783	Not used	
	22	Door Sheet 33	Not used	AAK7775	
	25	Front Panel 35	AMB7691	Not used	
	25	Front Panel 33	Not used	AMB7714	

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

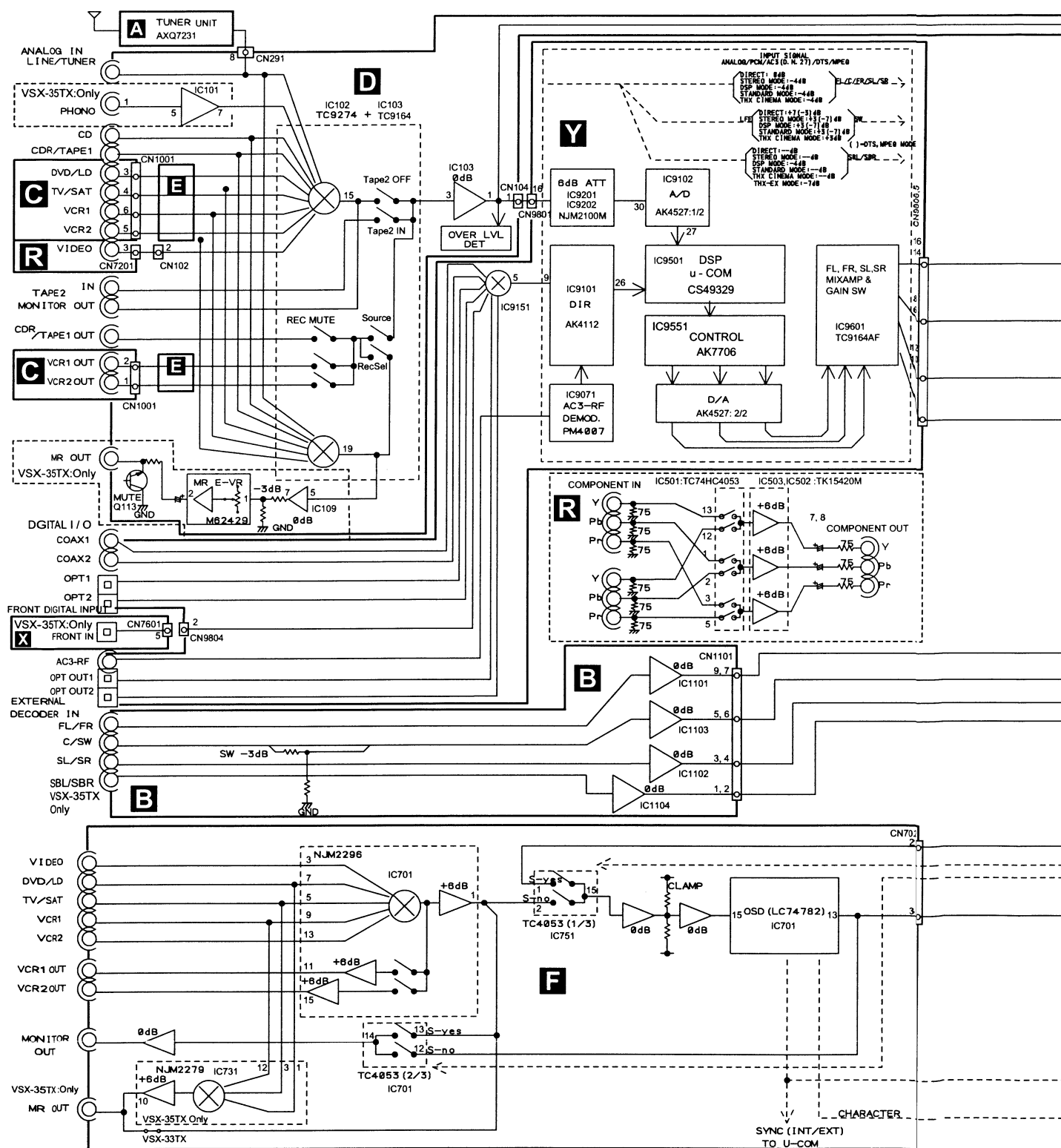
3.1 BLOCK DIAGRAM

A

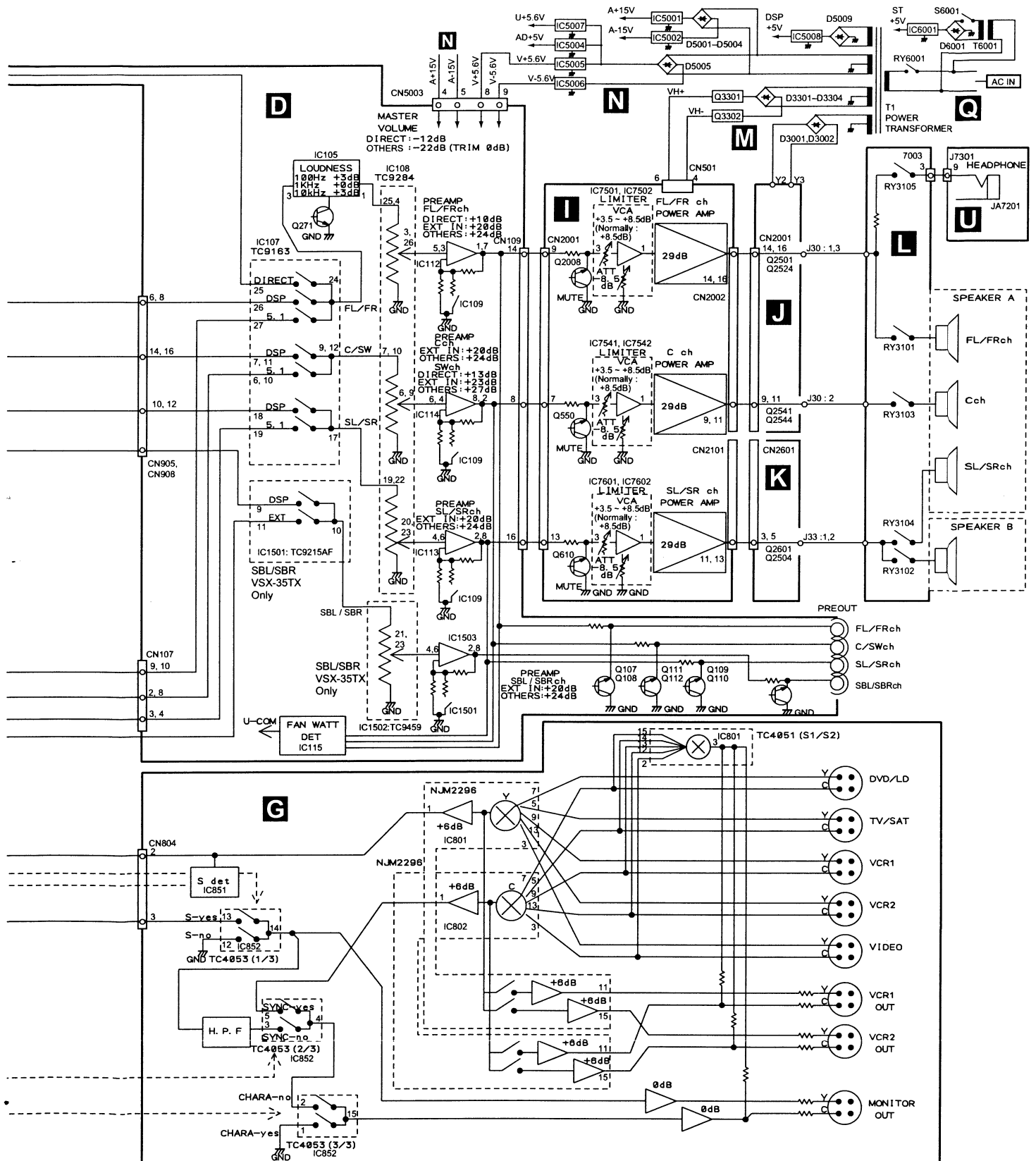
B

C

D



VSX-35TX, VSX-33TX

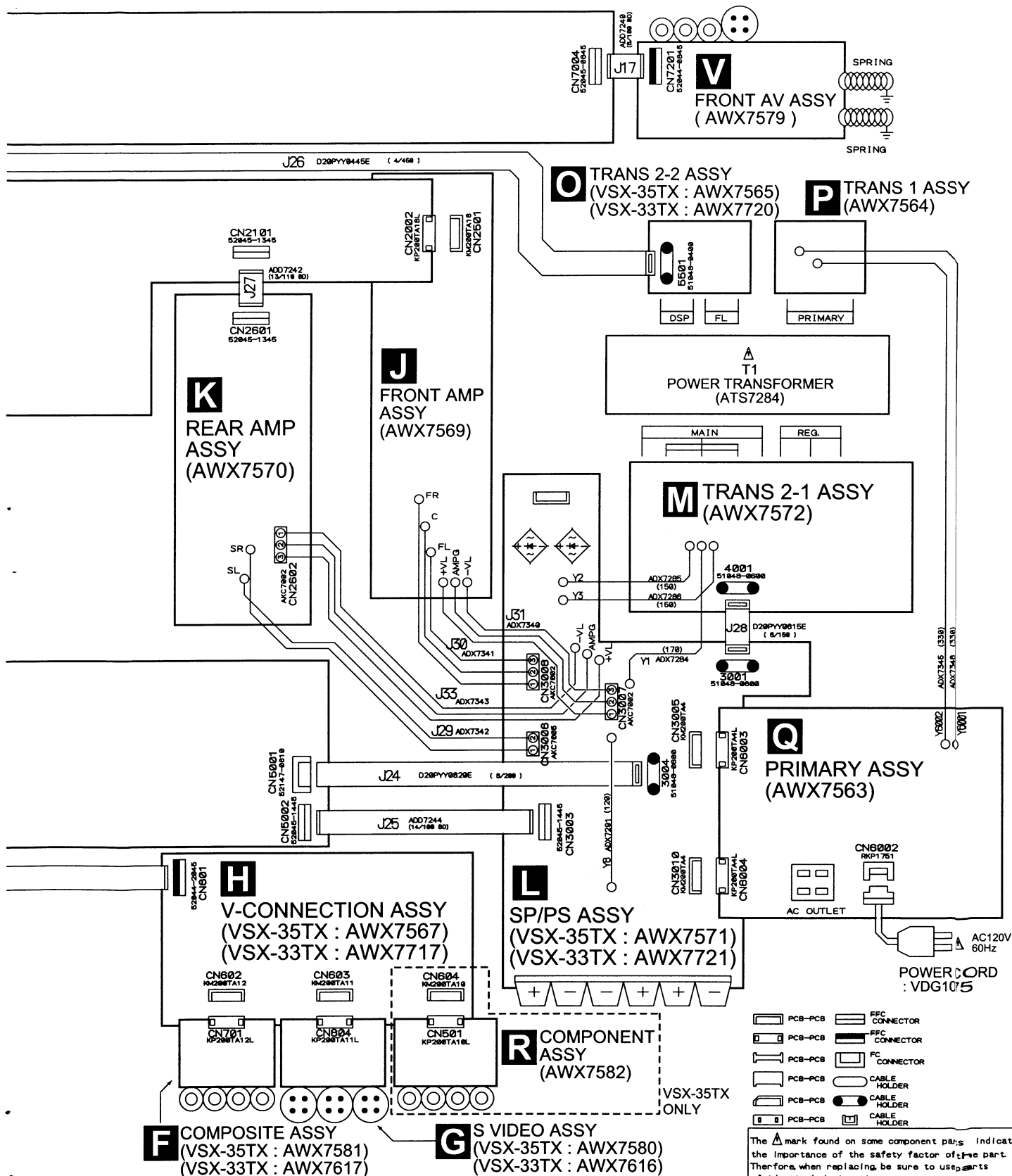


3.2 OVERALL WIRING DIAGRAM



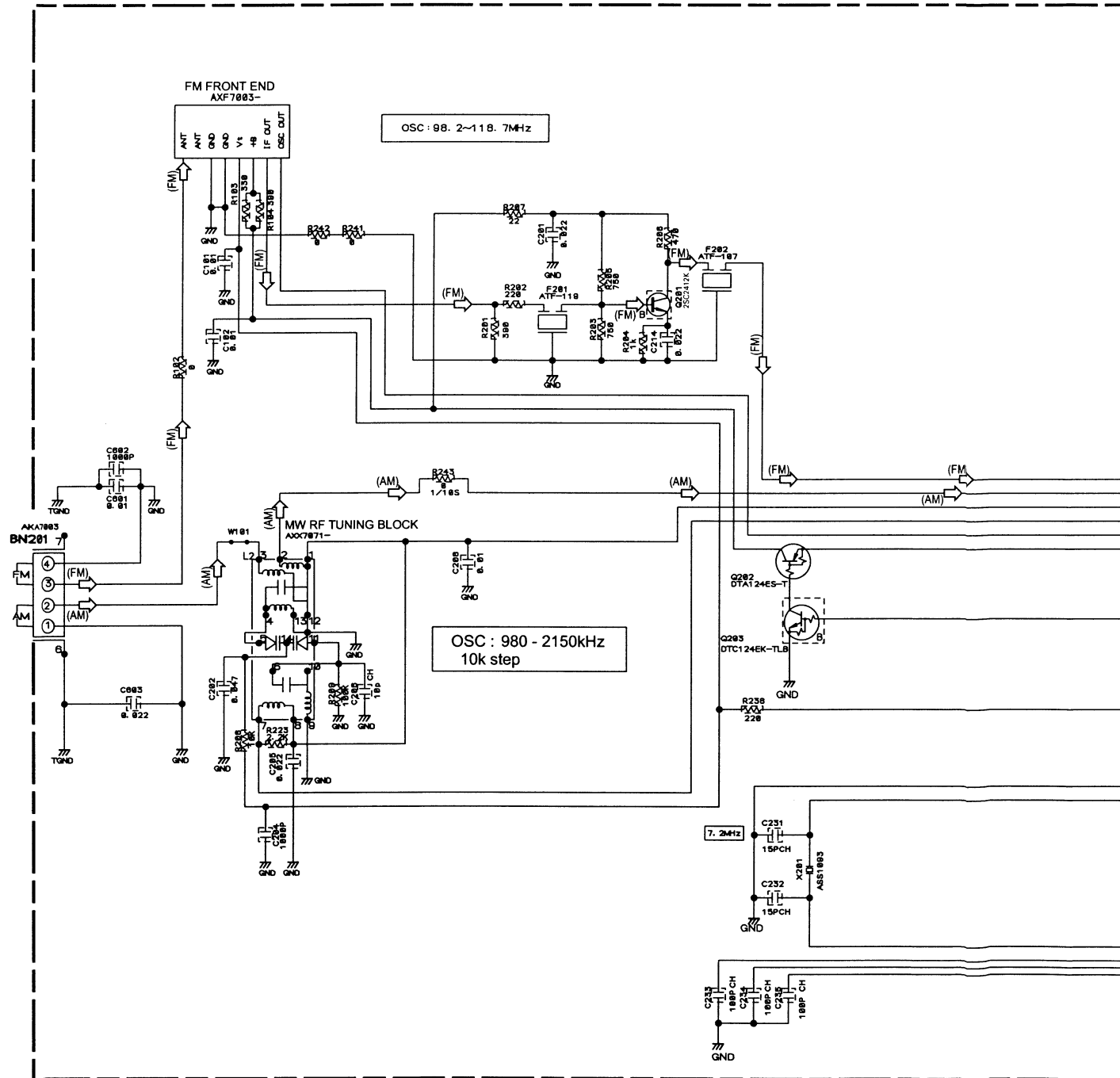
VSX-35TX, VSX-33TX

Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



3.3 FM/AM TUNER UNIT

A FM/AM TUNER UNIT (AXQ7231)



Notes

1. RESISTORS

Indicated in Ω , $1/16W \pm 5\%$ Tolerance unless otherwise noted K:K Ω , M:M Ω .

2. CAPACITORS

Indicated in Capacity (μF)/VOLTAGE (V) unless otherwise noted P:PF.

3. DIODES

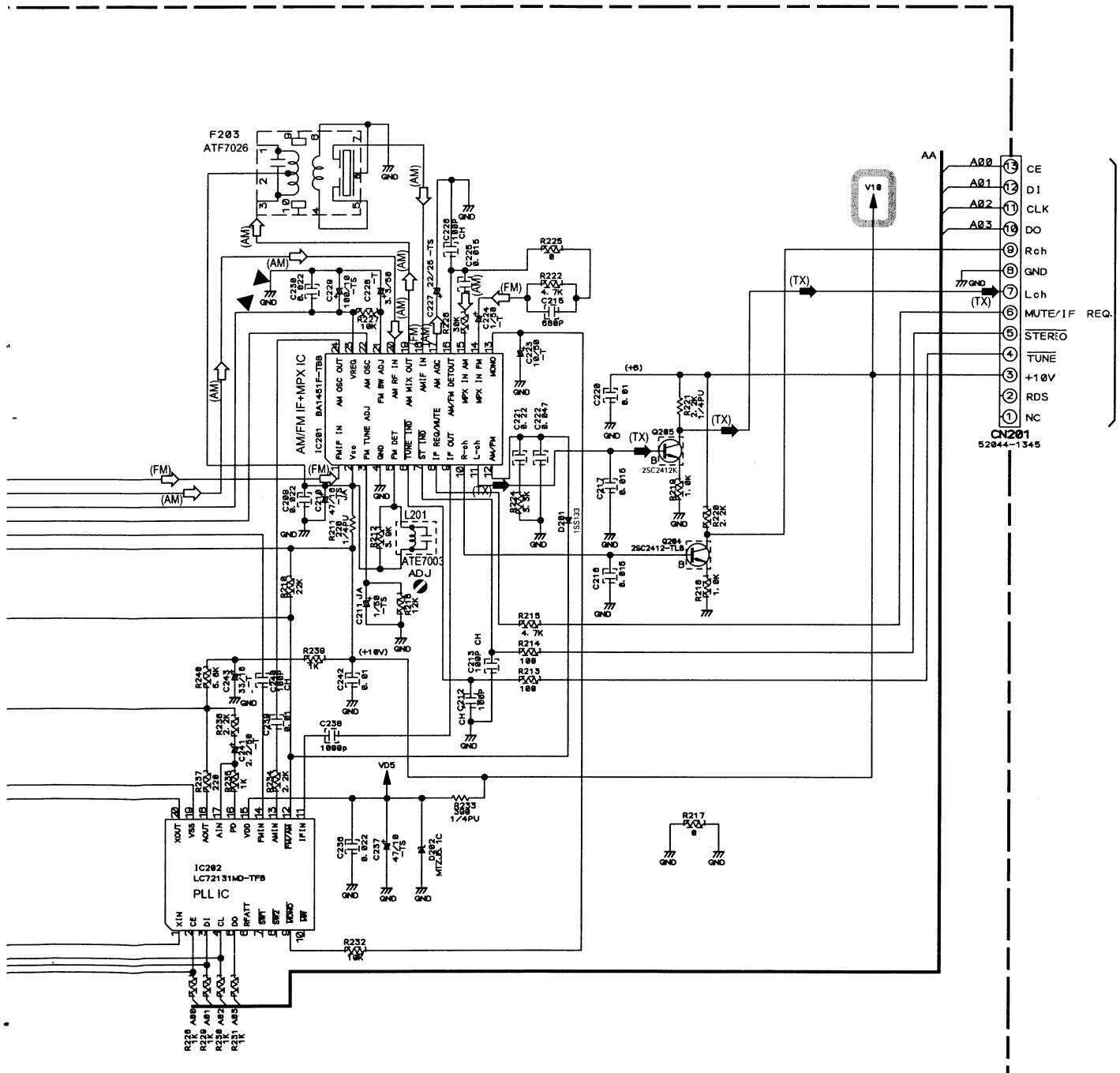
No mark diode is 1SS133.

 : The power supply is shown with the marked box.

(TX)  : AUDIO SIGNAL ROUTE (TUNER)

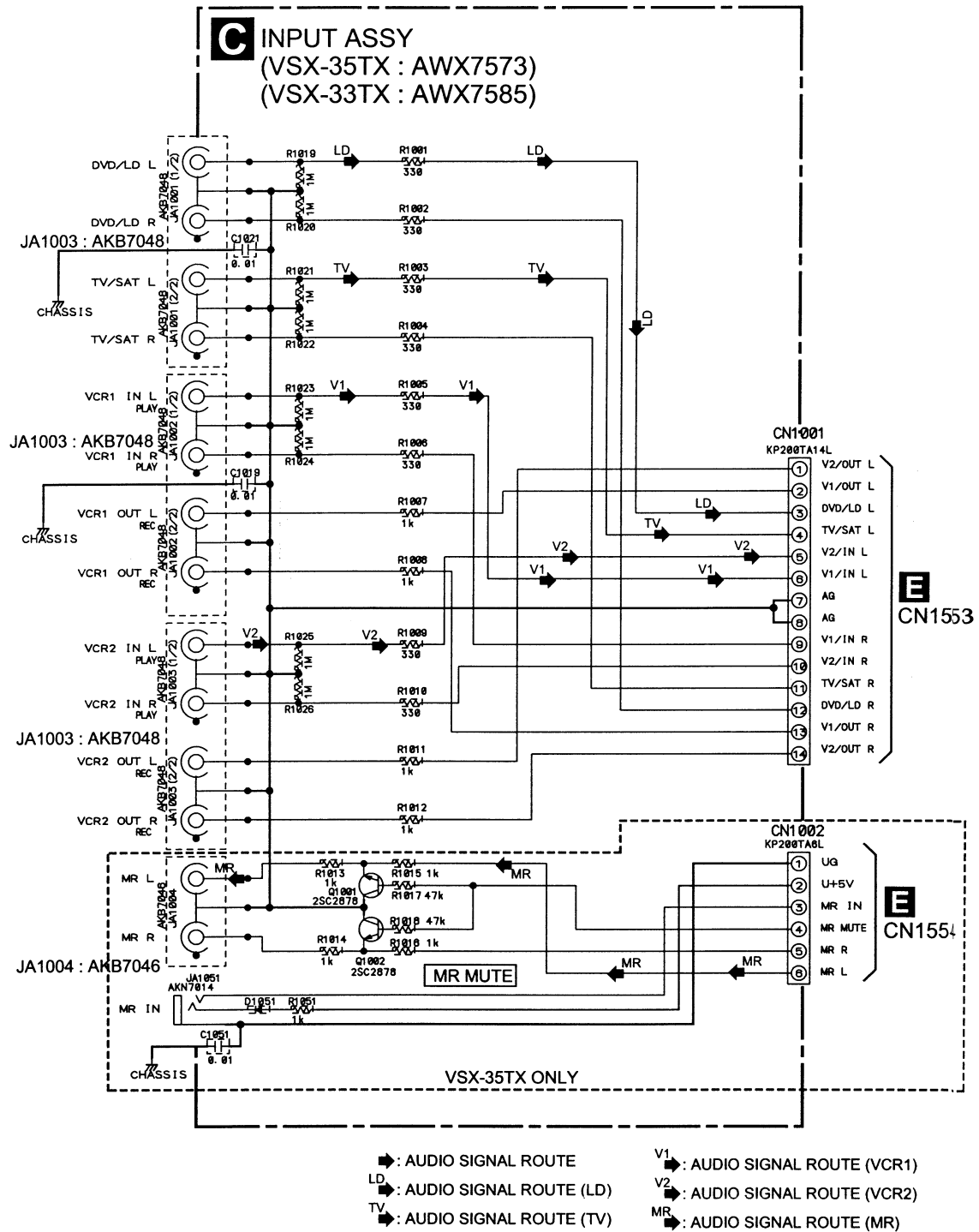
(AM)  : AM SIGNAL ROUTE

(FM)  : FM SIGNAL ROUTE



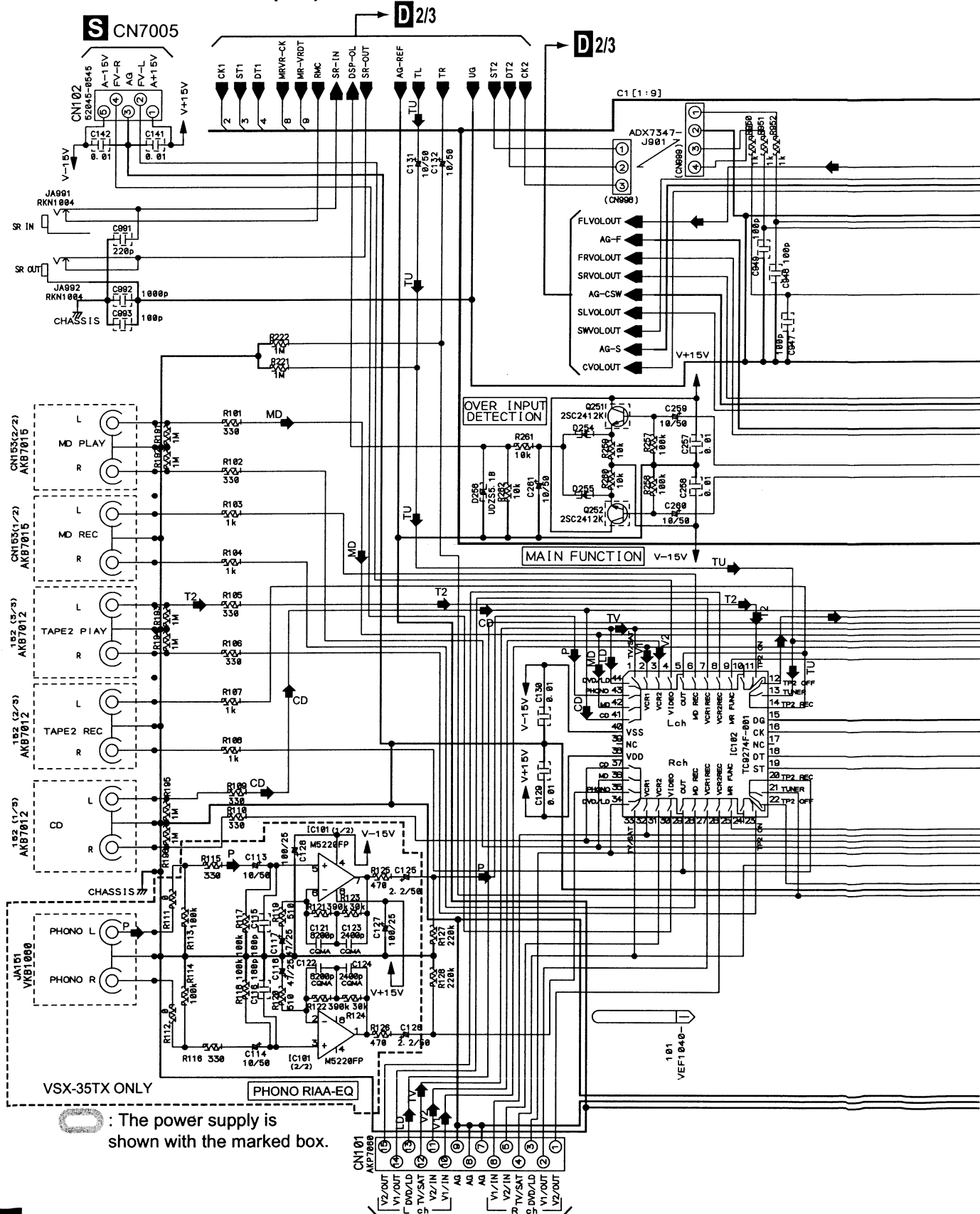


3.5 INPUT ASSY



VSX-35TX, VSX-33TX

3.6 MAIN CONTROL ASSY (1/3)

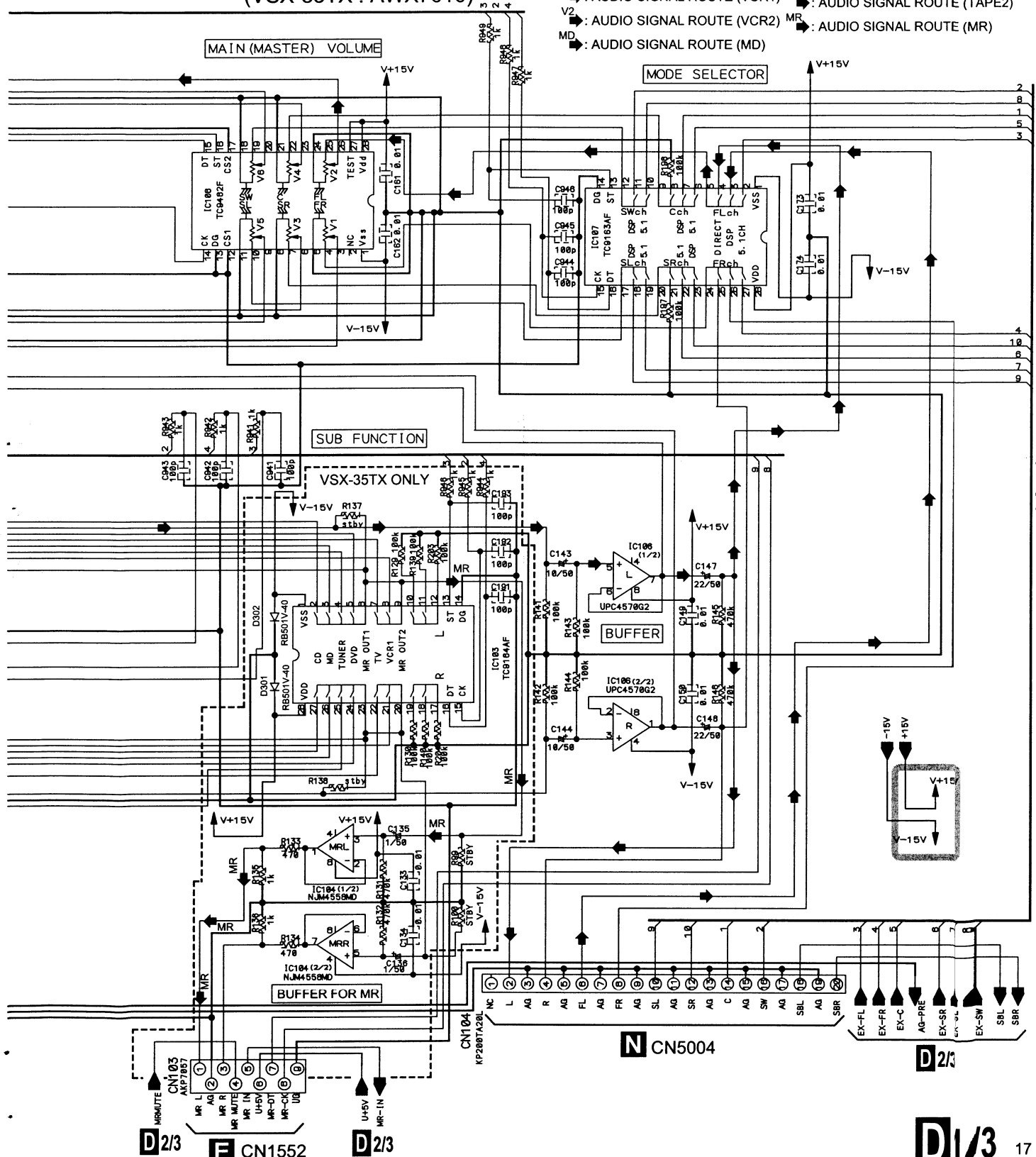


The power supply is shown with the marked box.

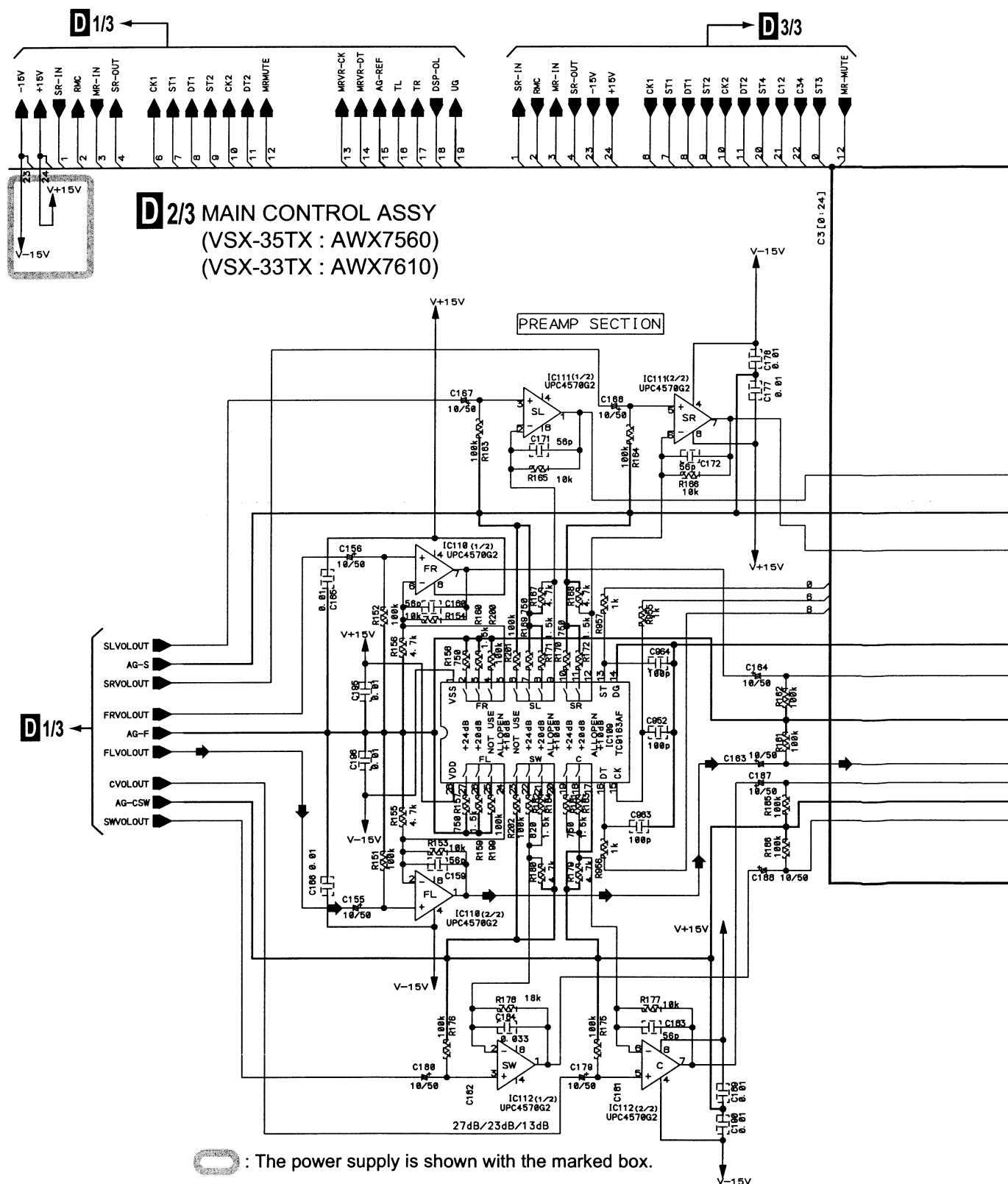
VSX-35TX, VSX-33TX

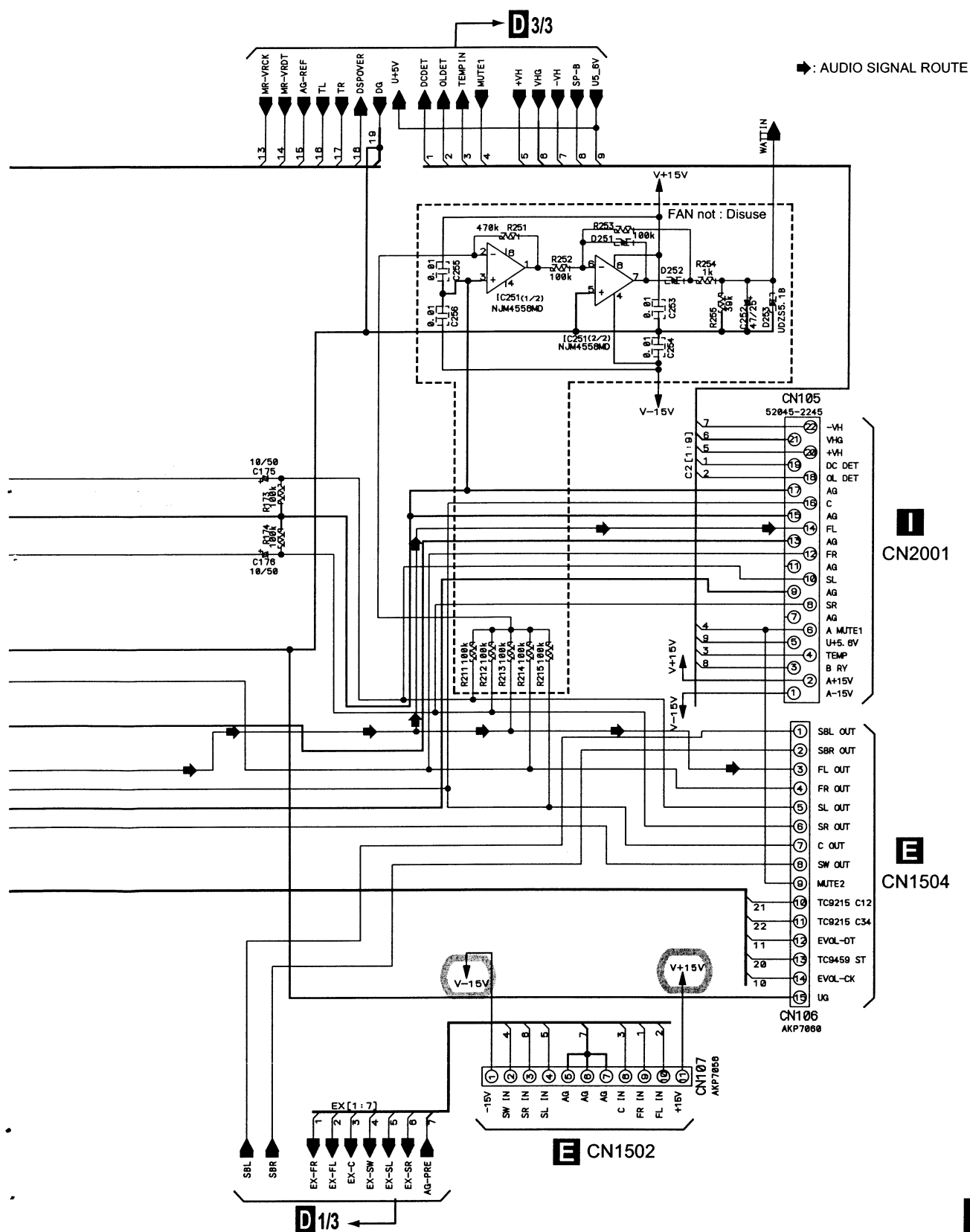
D 1/3 MAIN CONTROL ASSY
(VSX-35TX : AWX7560)
(VSX-33TX : AWX7610)

- | | |
|---|--|
|  LD ➡ AUDIO SIGNAL ROUTE (LD) |  P ➡ AUDIO SIGNAL ROUTE (PHONO) |
|  TV ➡ AUDIO SIGNAL ROUTE (TV) |  TU ➡ AUDIO SIGNAL ROUTE (TUNER) |
|  V1 ➡ AUDIO SIGNAL ROUTE (VCR1) |  CD ➡ AUDIO SIGNAL ROUTE (CD) |
|  V2 ➡ AUDIO SIGNAL ROUTE (VCR2) |  T2 ➡ AUDIO SIGNAL ROUTE (TAPE2) |
|  MD ➡ AUDIO SIGNAL ROUTE (MD) |  MR ➡ AUDIO SIGNAL ROUTE (MR) |



3.7 MAIN CONTROL ASSY (2/3)





➡: AUDIO SIGNAL ROUTE

CN2001

CN1504

E CN1502

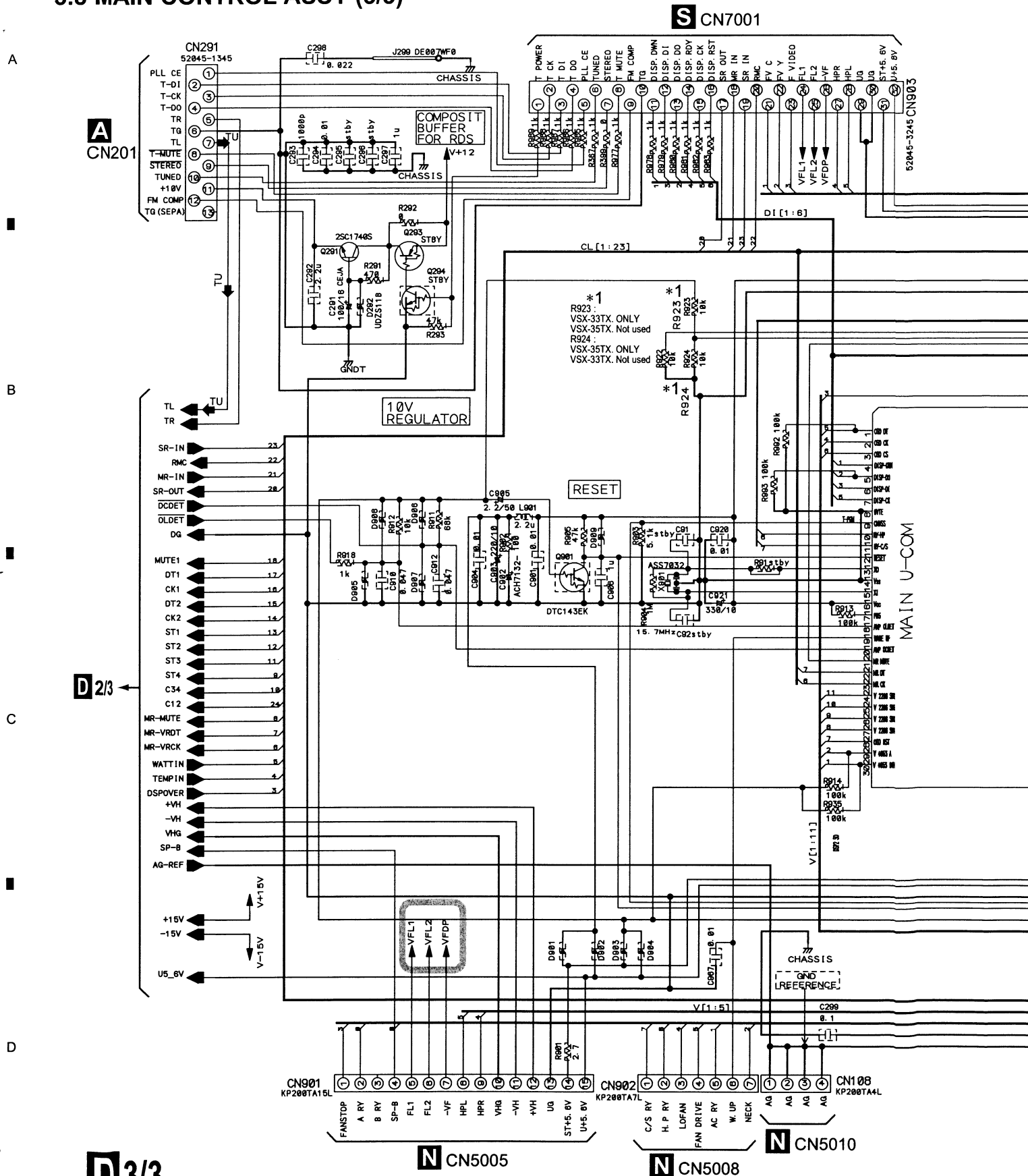
CN106
AKP7060

CN107
AKP7058

D2/3

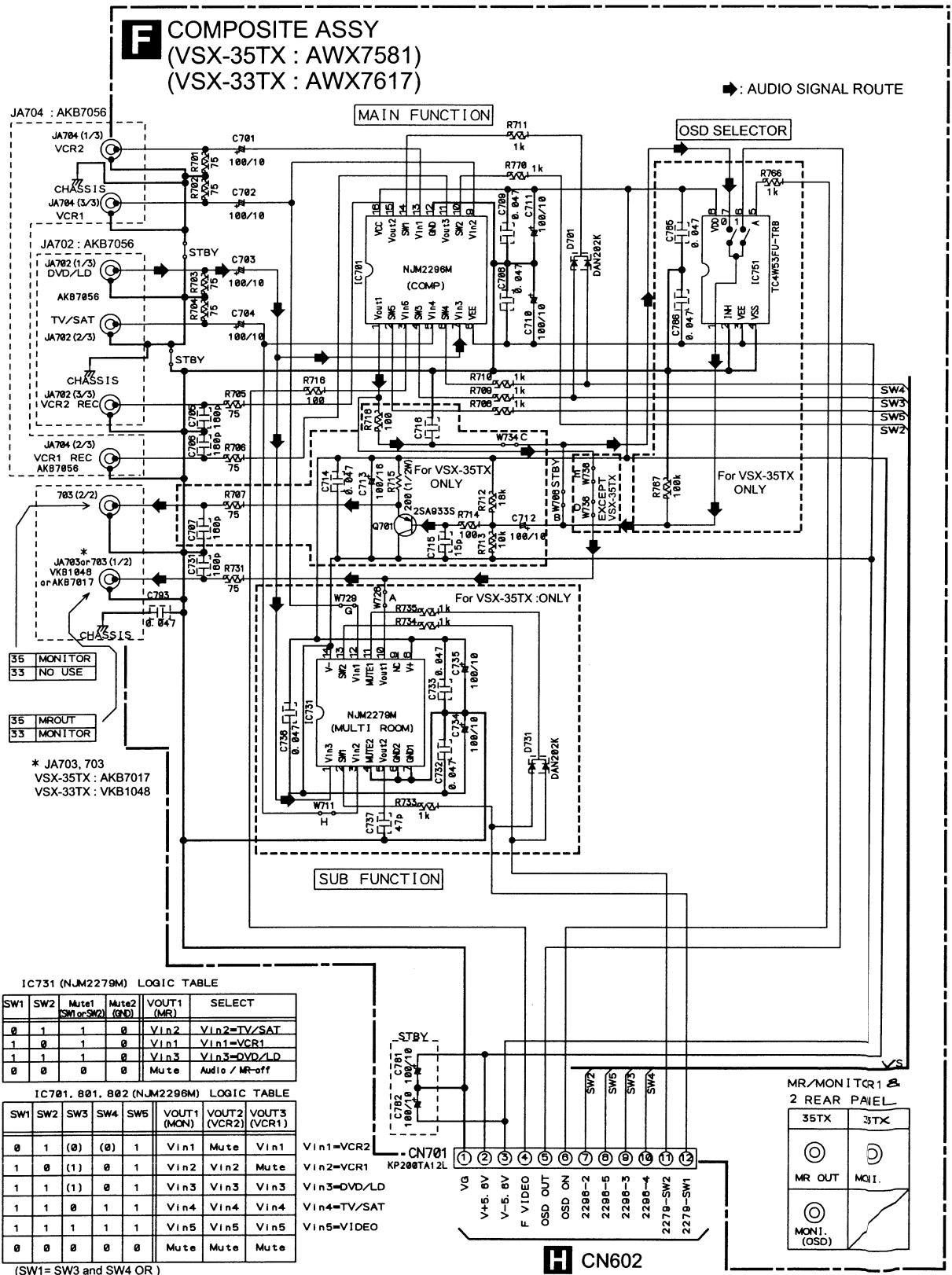
VSX-35TX, VSX-33TX

3.8 MAIN CONTROL ASSY (3/3)





3.10 COMPOSITE ASSY

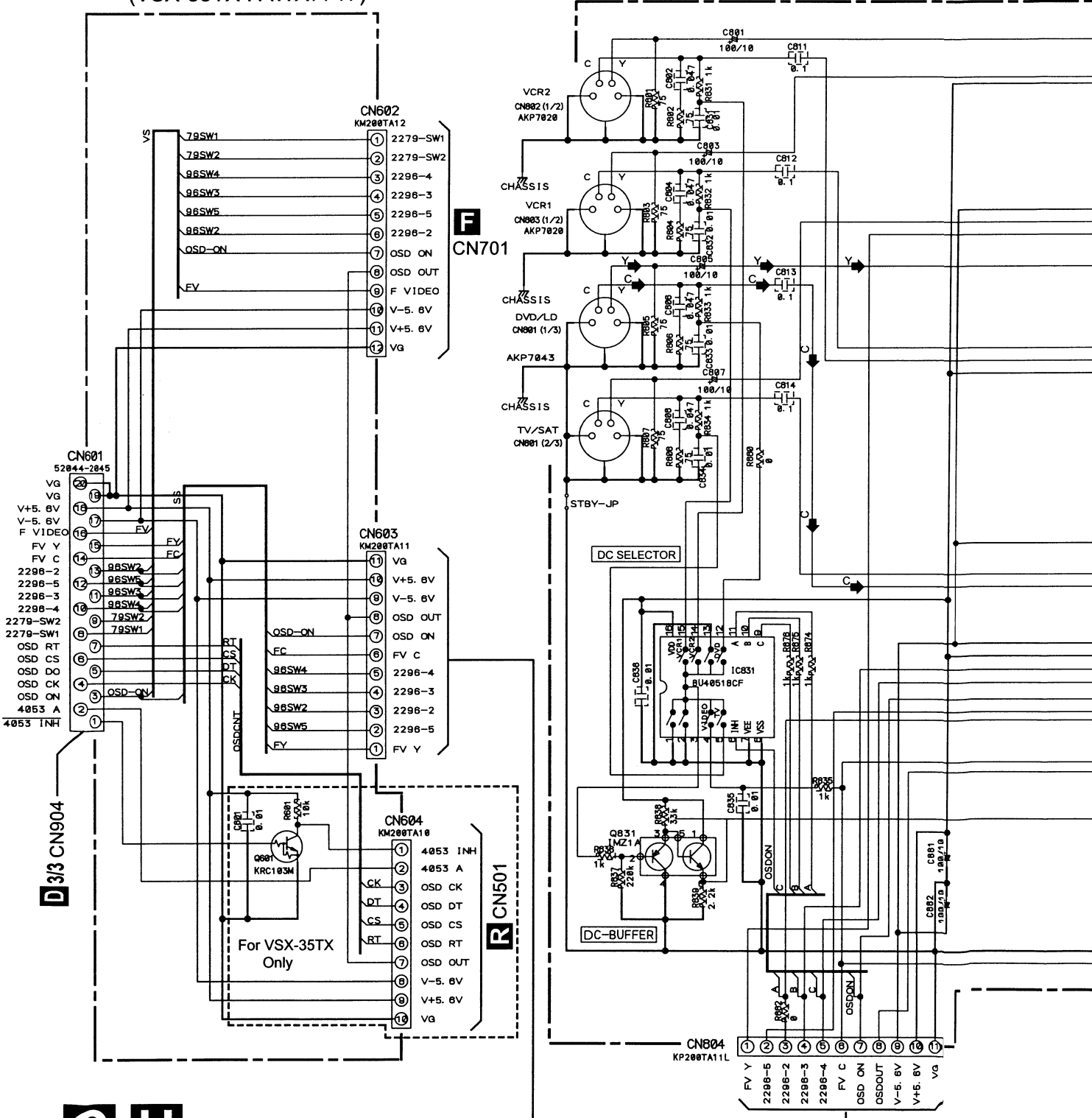


VSX-35TX, VSX-33TX

3.11 S VIDEO and V-CONNECTION ASSYS

H V-CONNECTION ASSY
(VSX-35TX : AWX7567)
(VSX-33TX : AWX7717)

G S VIDEO ASSY
(VSX-35TX : AWX7580)
(VSX-33TX : AWX7616)



VSX-35TX, VSX-33TX

- ◆ : AUDIO SIGNAL ROUTE
 Y : Y SIGNAL ROUTE
 C : C SIGNAL ROUTE

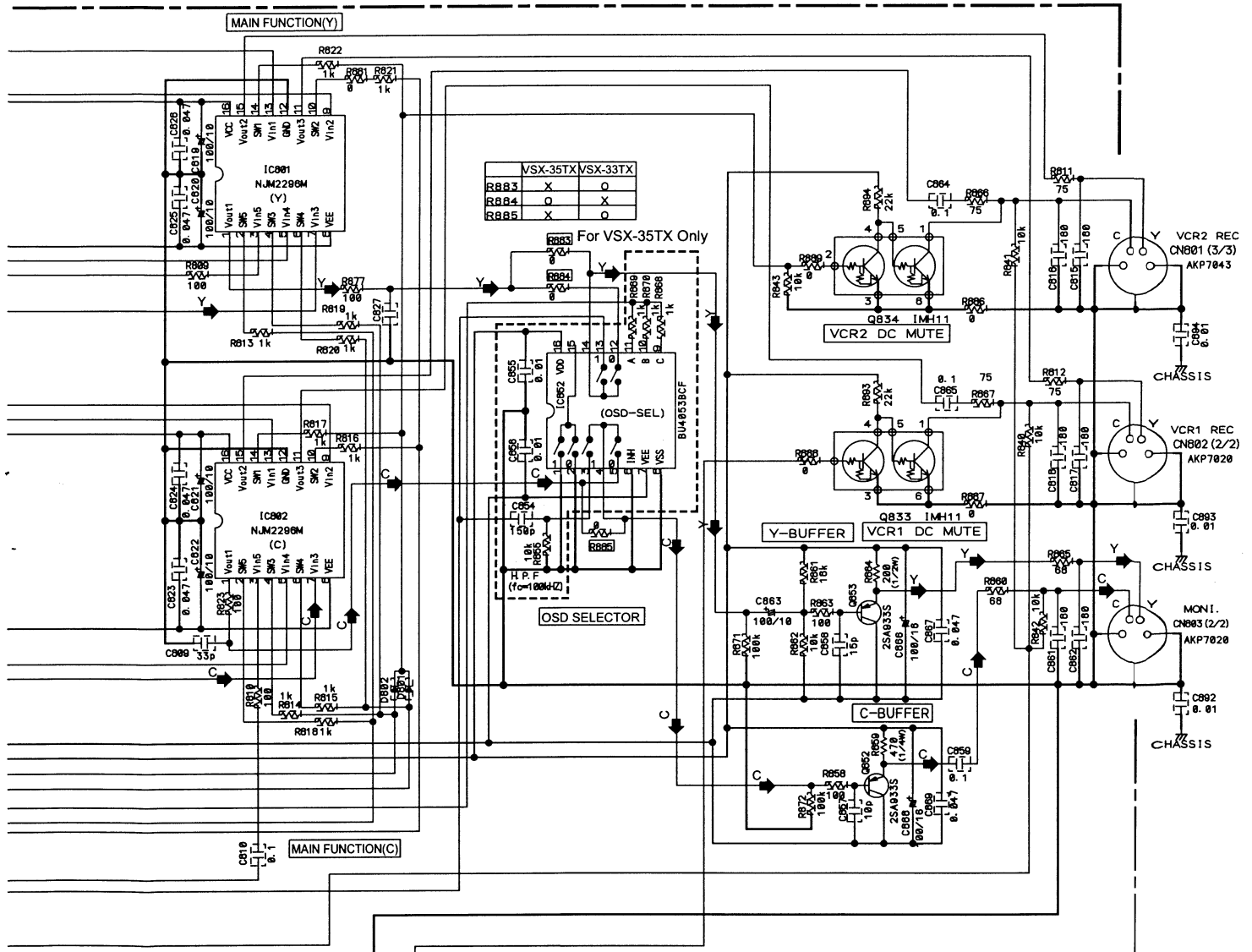


TABLE IC801, 802 (NJM2296M)

SW1	SW2	SW3	SW4	SW5	VOUT1 (MON)	VOUT2 (VCR2)	VOUT3 (VCR1)
0	1	(0)	(0)	1	Vin1	Mute	Vin1
1	0	(1)	0	1	Vin2	Vin2	Mute
1	1	(1)	0	1	Vin3	Vin3	Vin3
1	1	0	1	1	Vin4	Vin4	Vin4
1	1	1	1	1	Vin5	Vin5	Vin5
0	0	0	0	0	Mute	Mute	Mute

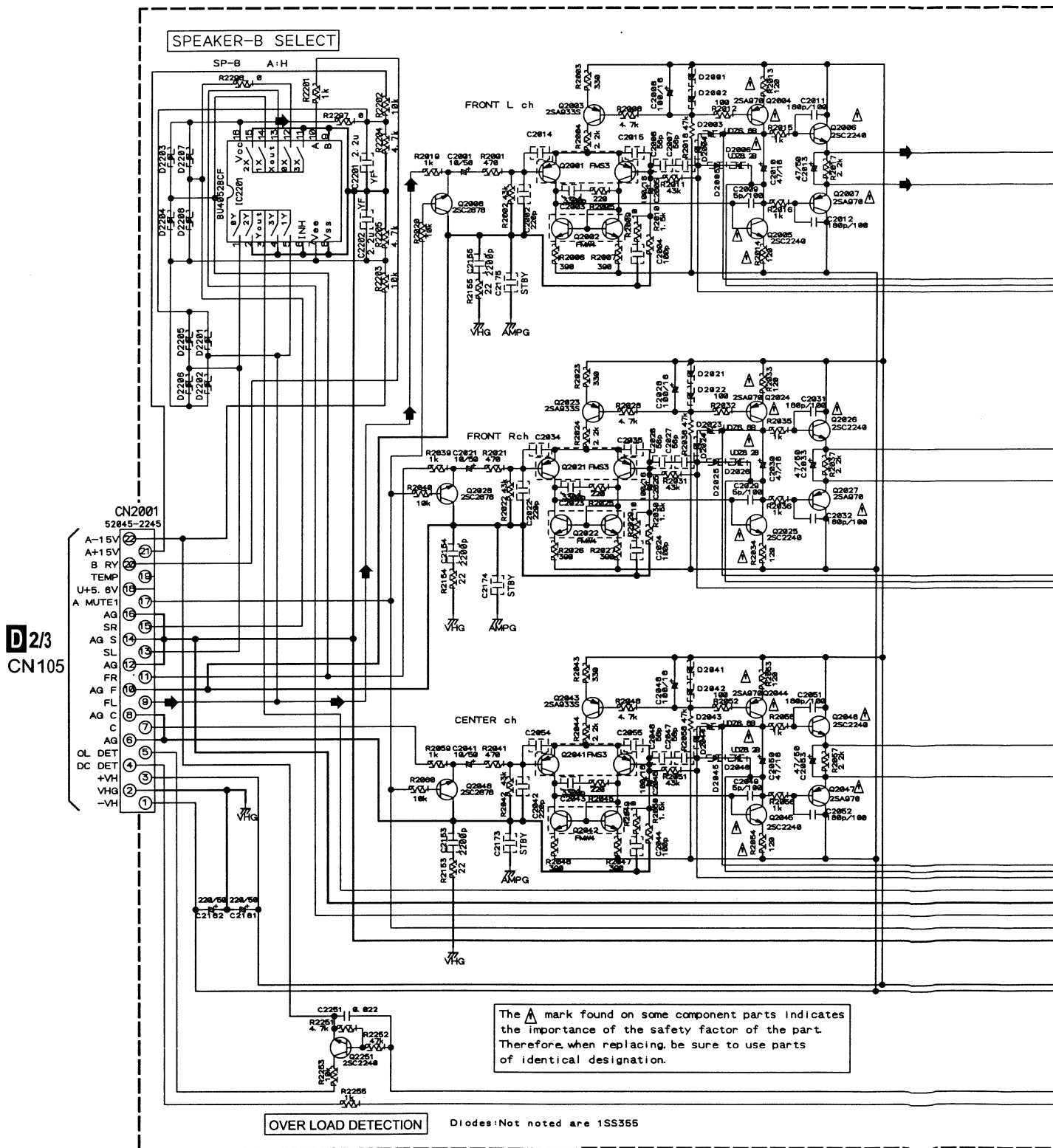
(SW1-SW3*SW4)

TABLE IC831 (BU4851BCF)

A	B	C	INH	OUT
(SW1)	(SW2)	(SW3)	(SW4)	
0	0	0	0	AUDIO
1	0	0	0	VCR2
0	1	0	0	VCR1
1	1	0	0	DVD/LD
0	0	1	0	TV/SAT
0	1	1	0	TV
1	1	1	0	TV
* * *	* * *	1		

VSX-35TX, VSX-33TX

3.12 V-AMP ASSY



V-AMP ASSY (AWX7578)

POWER AMP VOLTAGE AMPLIFYING STAGE

◆: AUDIO SIGNAL ROUTE

- NO MARK DIODE: 1SS355
- RESISTOR: 1/4W, JX
- NO MARK ELECTROLYTIC CAPACITOR: CEAS
JA: CEJA
- NON ELECTROLYTICAL CAPACITOR: CCCCH TYPE

CN2002
KP200TA18L

BIAS+
BIAS-
GATE-
NFB
GATE+
BIAS+
BIAS-
GATE-
NFB
GATE+
BIAS+
BIAS-
GATE-
NFB
GATE+
OL DET
AMP G
DC DET

FL

C

FR

J
CN2501

CN2101
52045-1345

BIAS+
BIAS-
GATE-
NFB
GATE+
BIAS+
BIAS-
GATE-
NFB
GATE+
OL DET
AMP G
DC DET

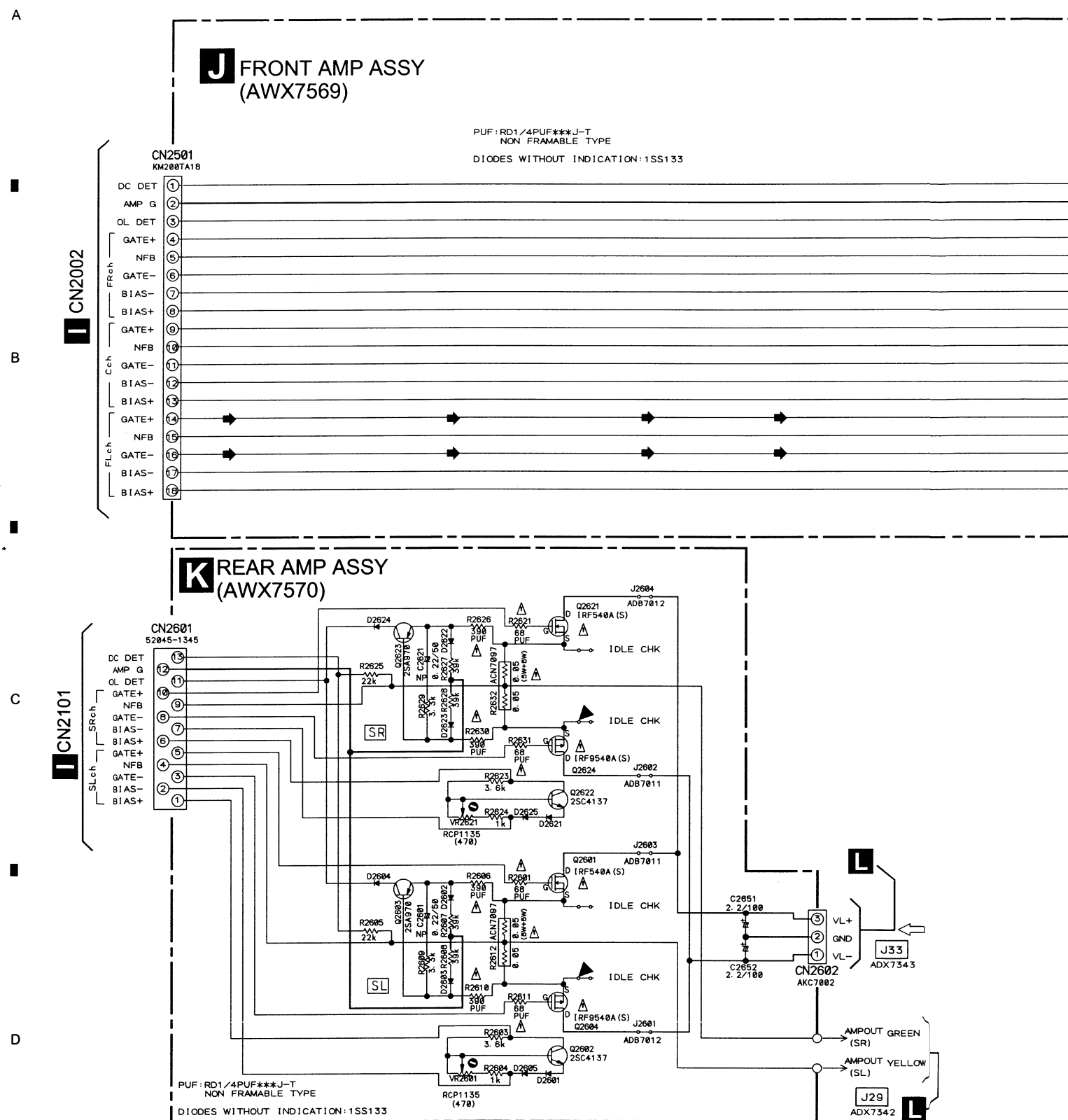
SL

SR

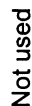
K
CN2601

DC DETECTION

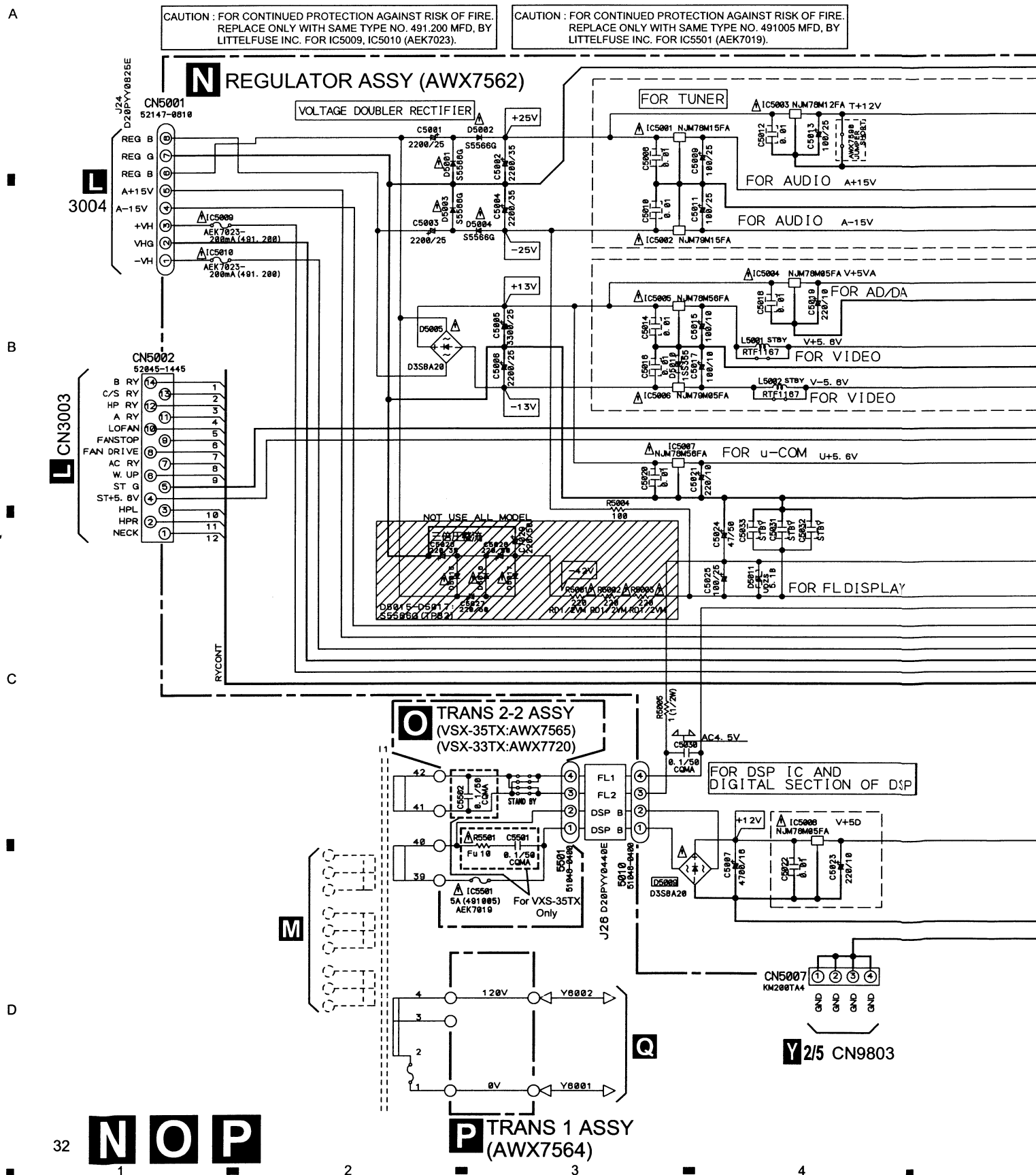
3.13 FRONT AMP and REAR AMP ASSYS



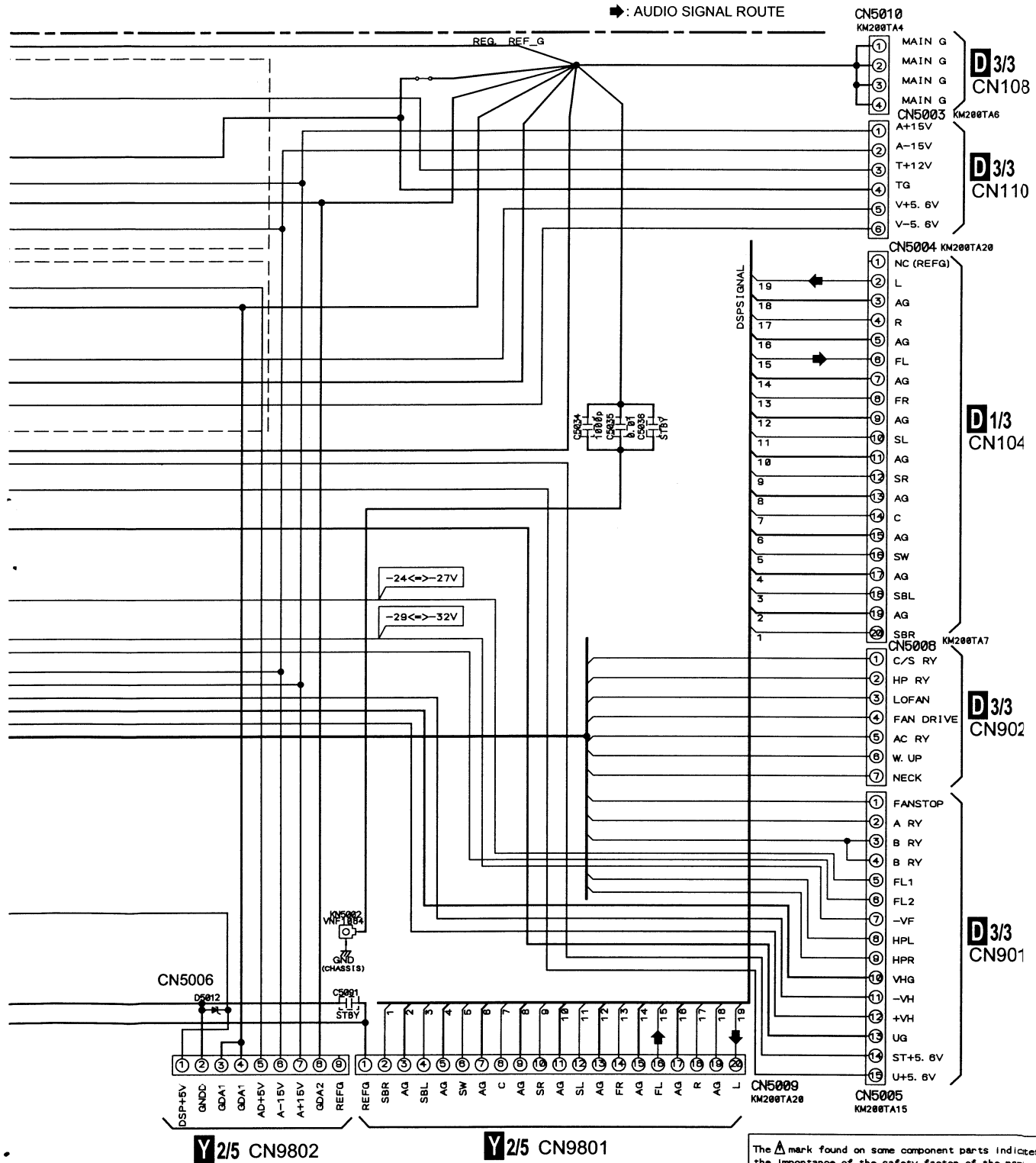
3.14 SP/PS and TRANS 2-1 ASSYS



3.15 REGULATOR, TRANS 2-2 and TRANS 1 ASSYS

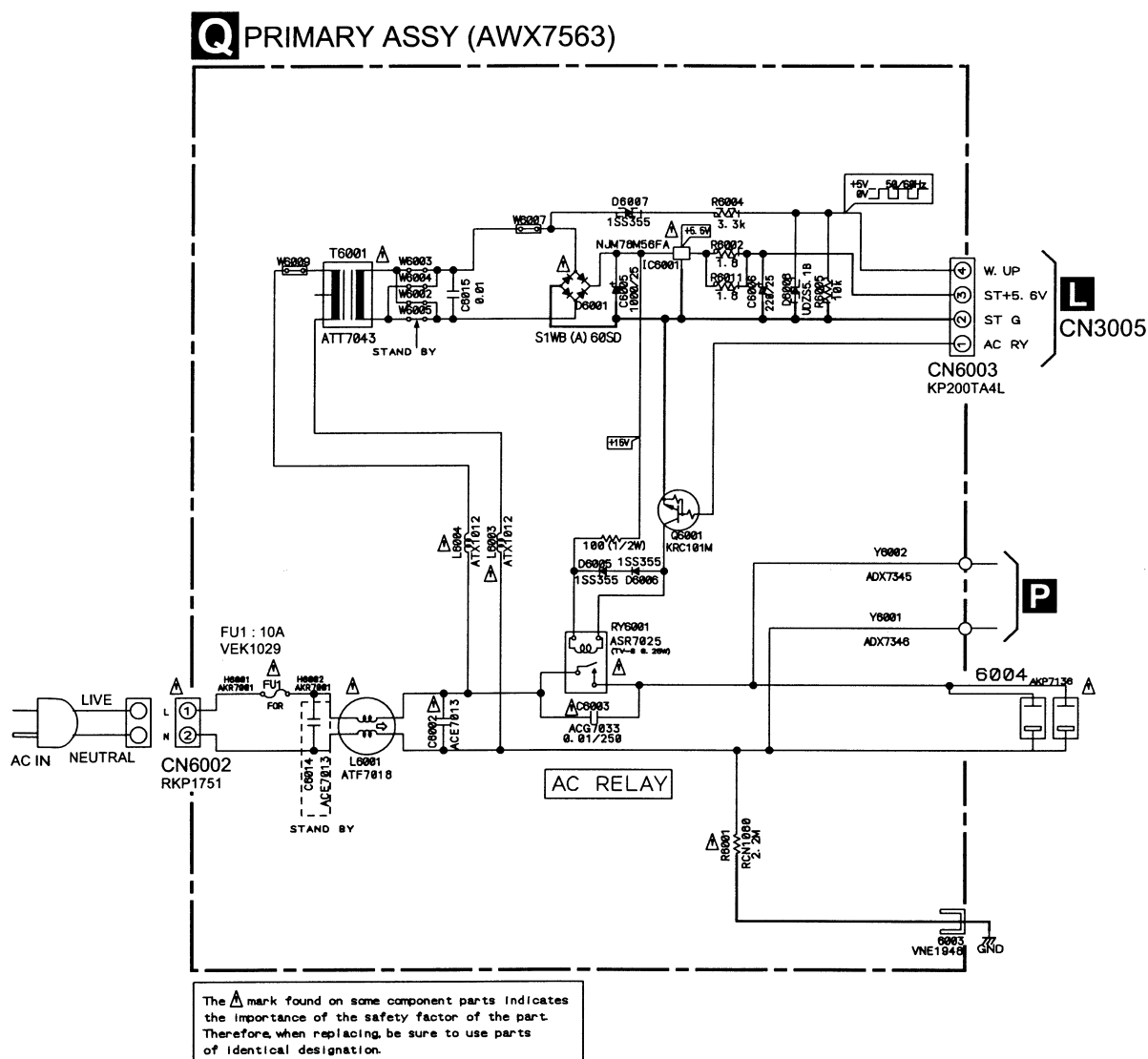


VSX-35TX, VSX-33TX



The **A** mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

3.16 PRIMARY ASSY

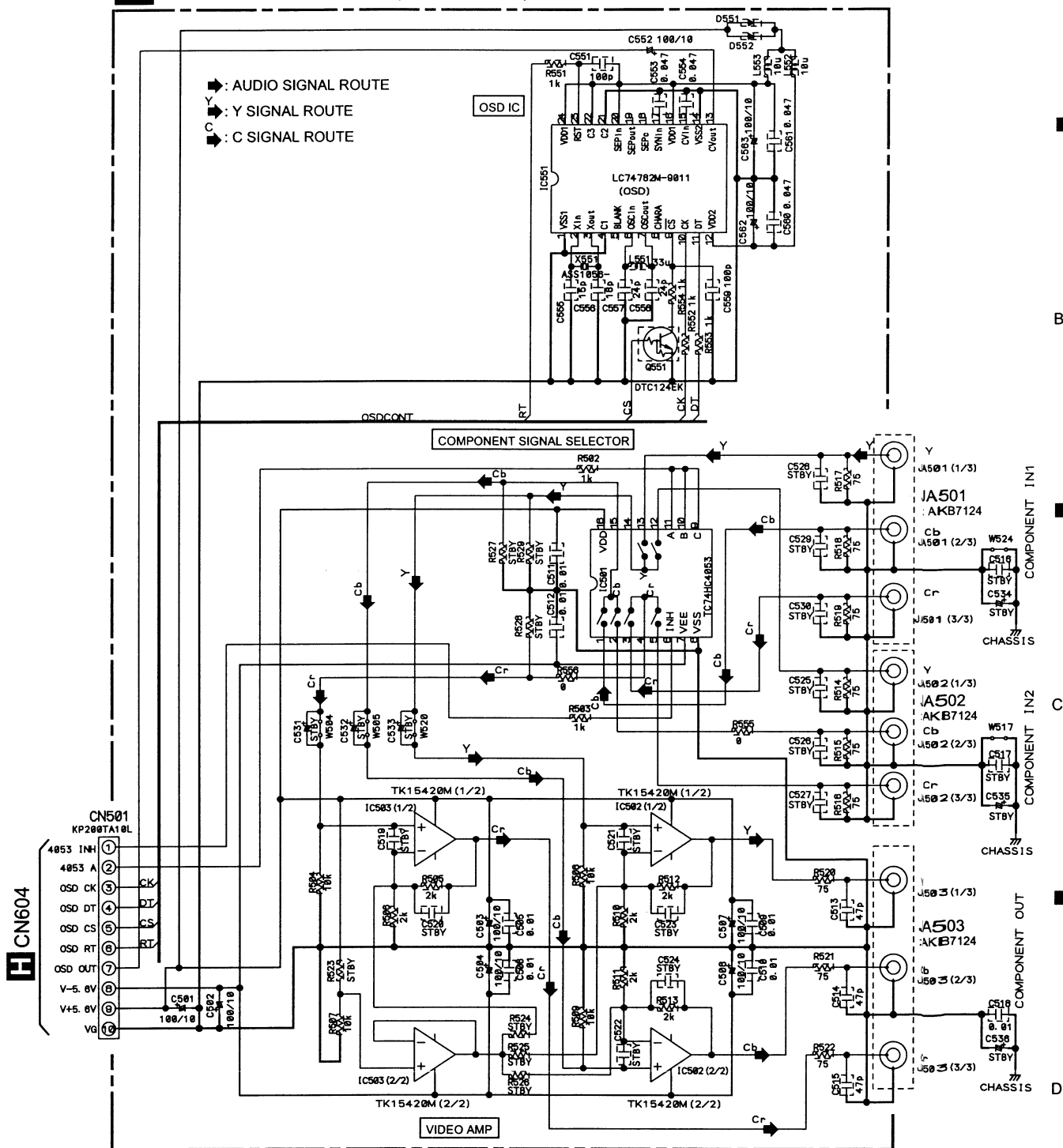


• NOTE FOR FUSE REPLACEMENT

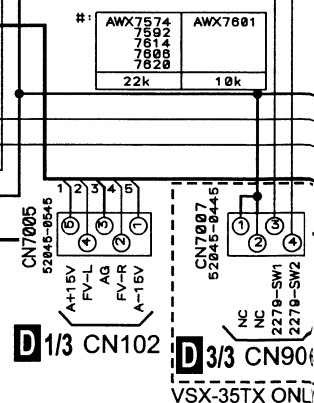
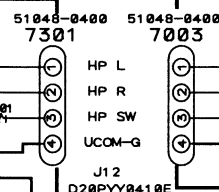
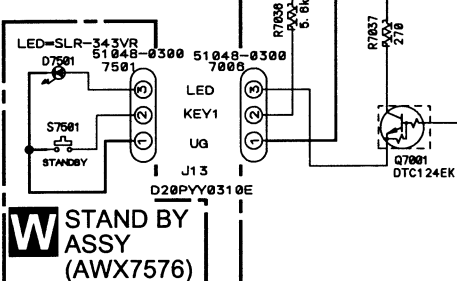
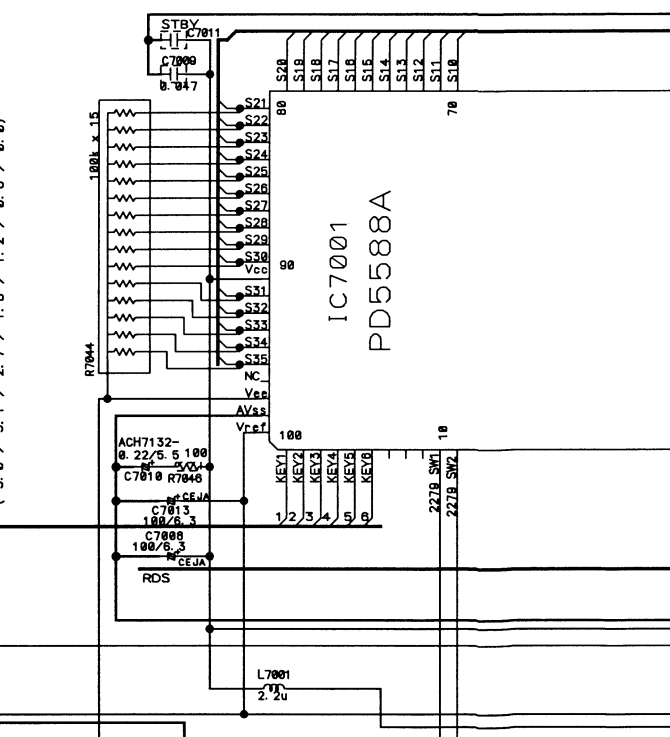
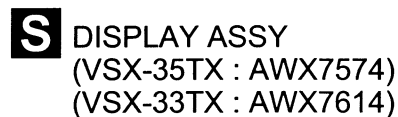
CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS ONLY.

3.17 COMPONENT ASSY (VSX-35TX ONLY)

R COMPONENT ASSY (AWX7582)



3.18 DISPLAY, VOLUME-CONT, HEADPHONE, FRONT AV and STAND BY ASSYS



A



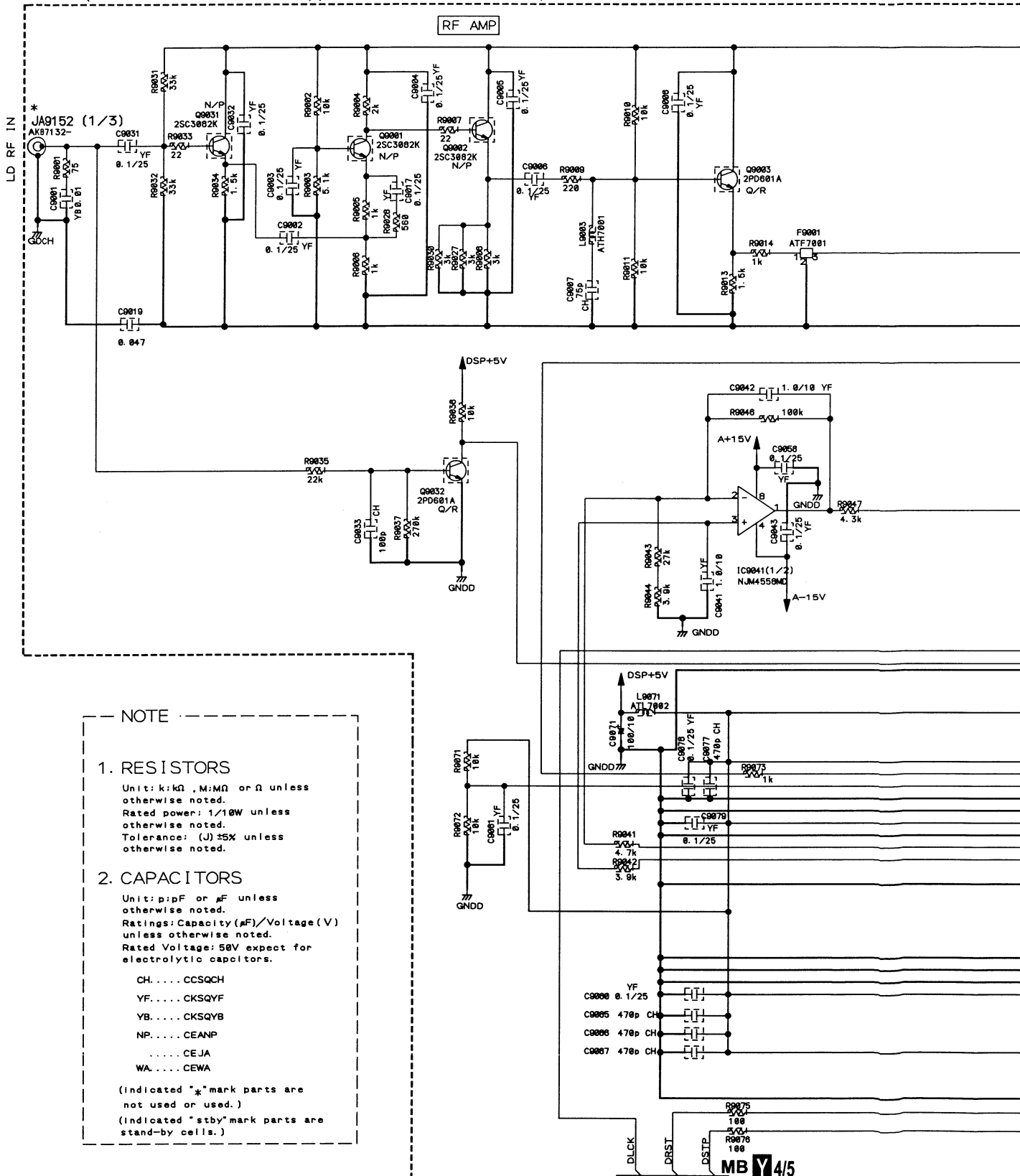
C

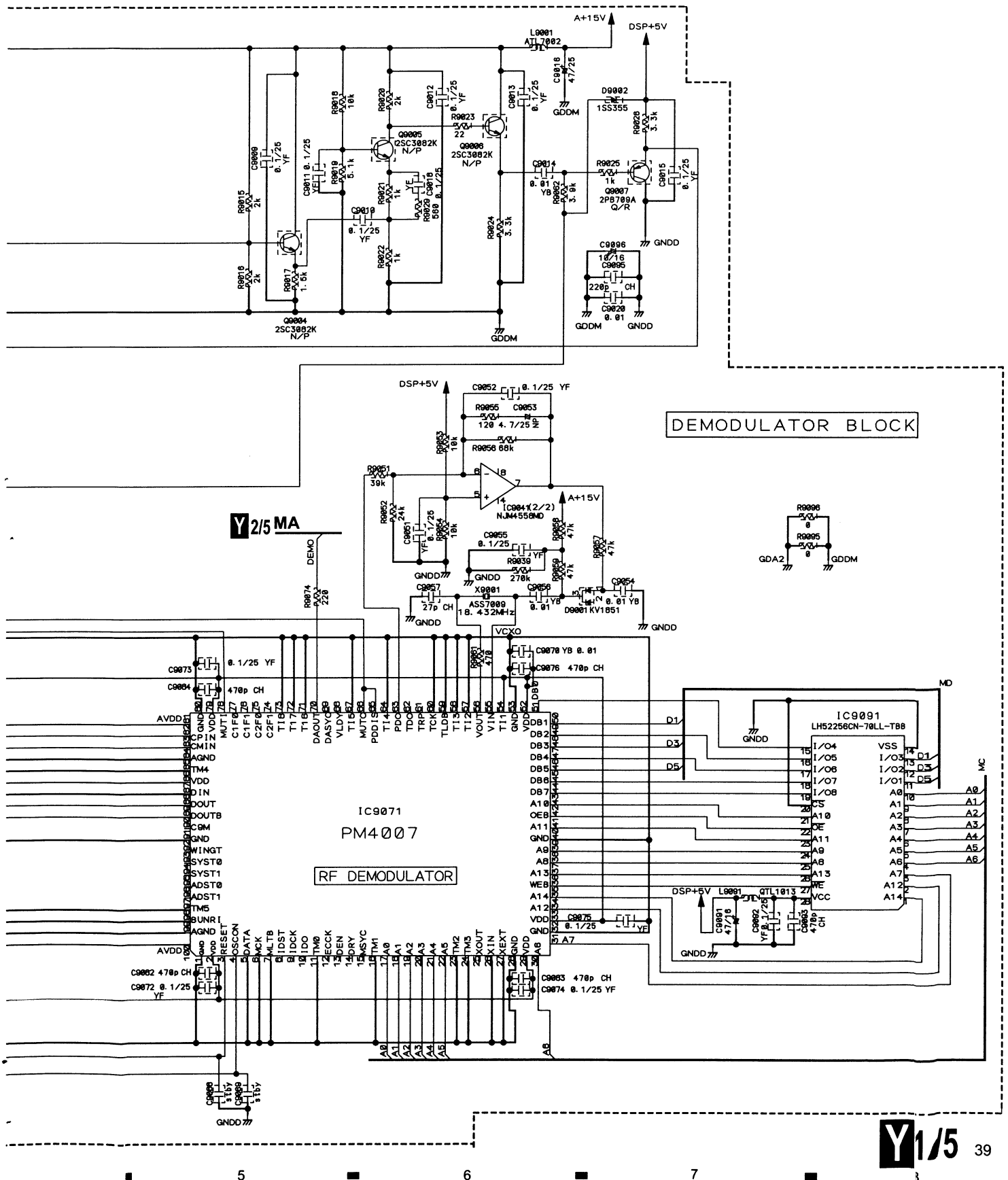
D

VSX-35TX, VSX-33TX

3.19 DSP ASSY (1/5)

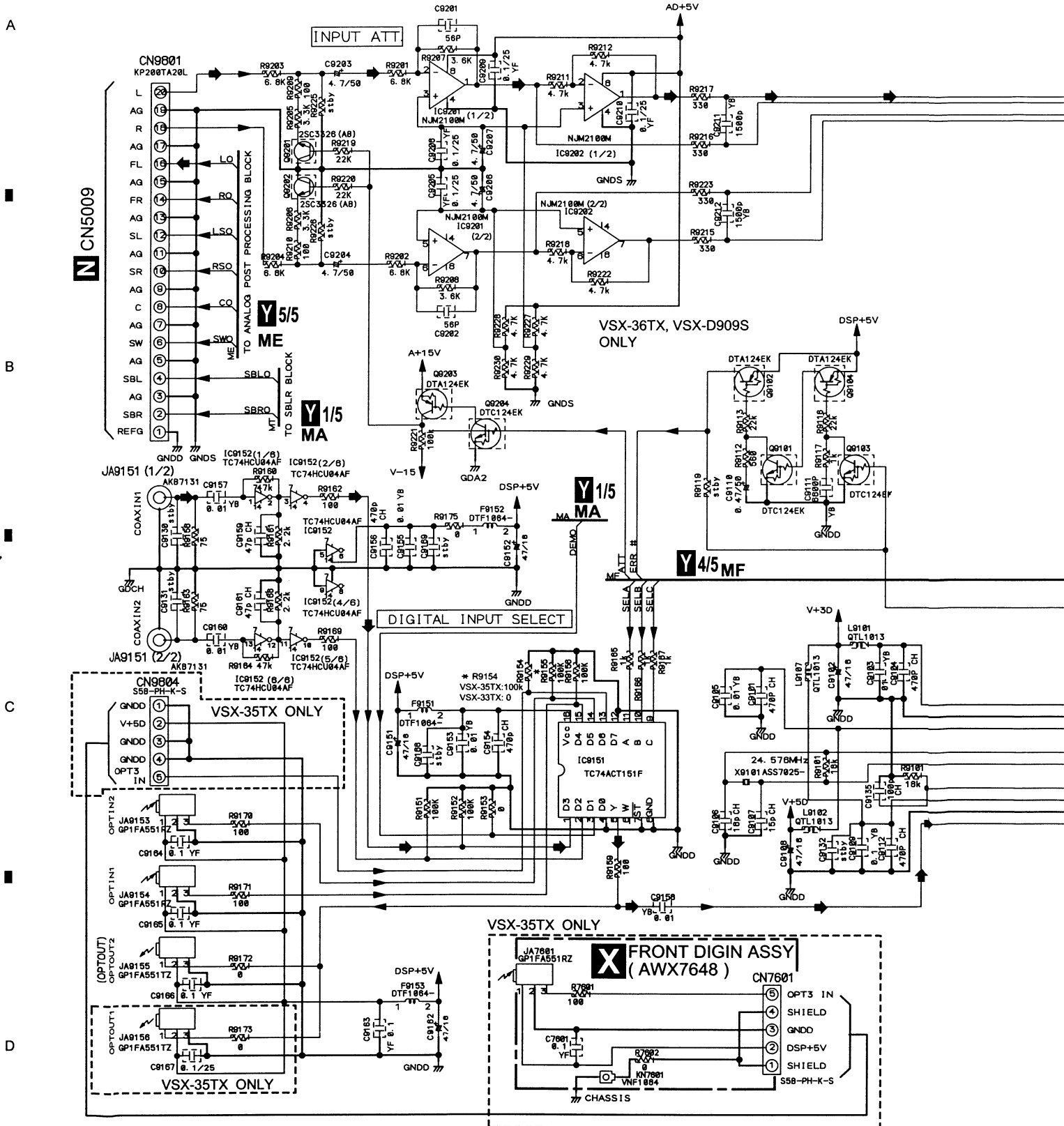
Y 1/5 DSP ASSY
(VSX-35TX : AWX7561)(VSX-33TX : AWX7611)





VSX-35TX, VSX-33TX

3.20 DSP (2/5) and FRONT DIGIN ASSYS



VSX-35TX, VSX-33TX

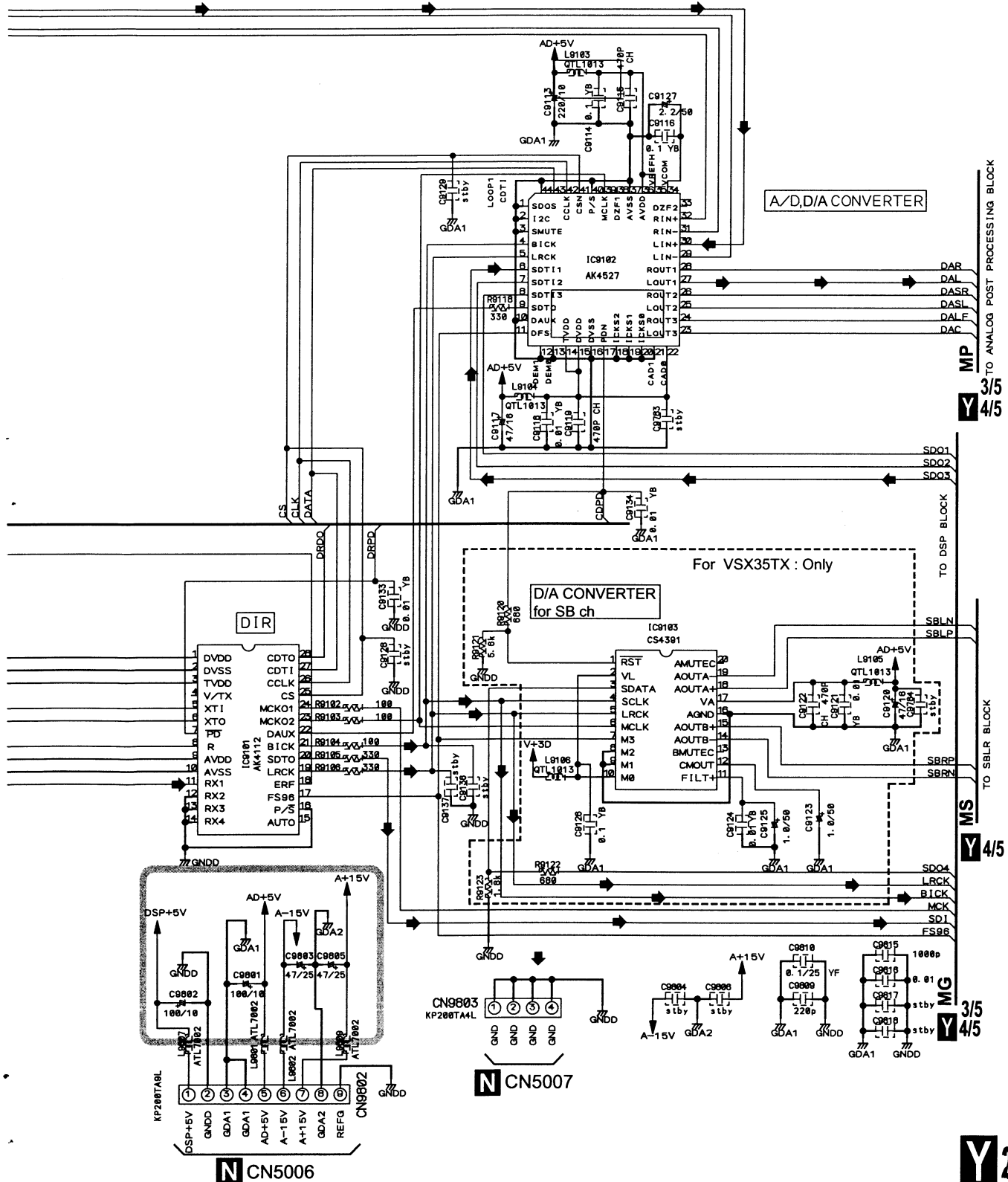
Y2/5 DSP ASSY

(VSX-35TX : AWX7561)

(VSX-33TX : AWX7611)

➡: AUDIO SIGNAL ROUTE

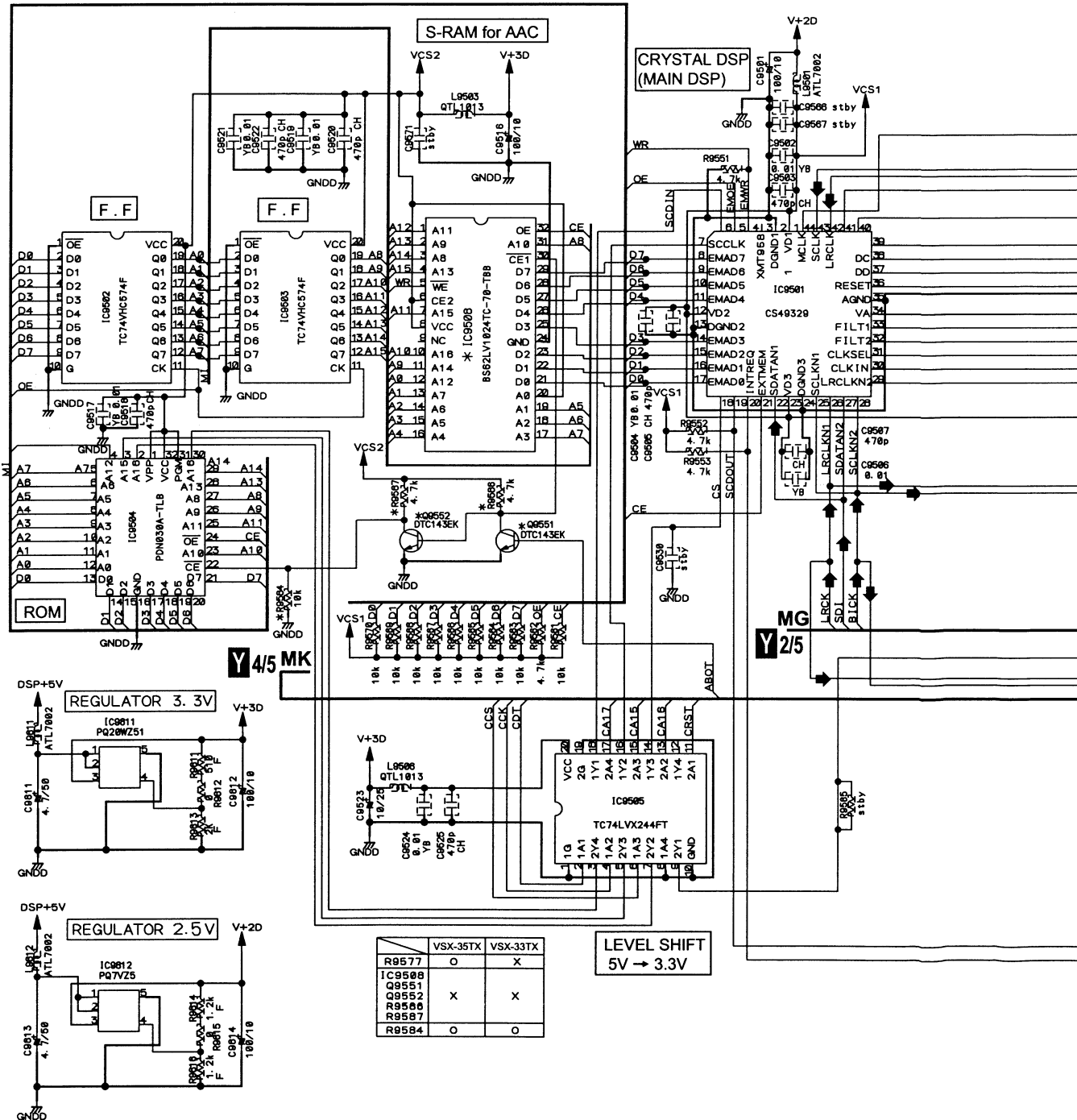
: The power supply is shown with the marked box.



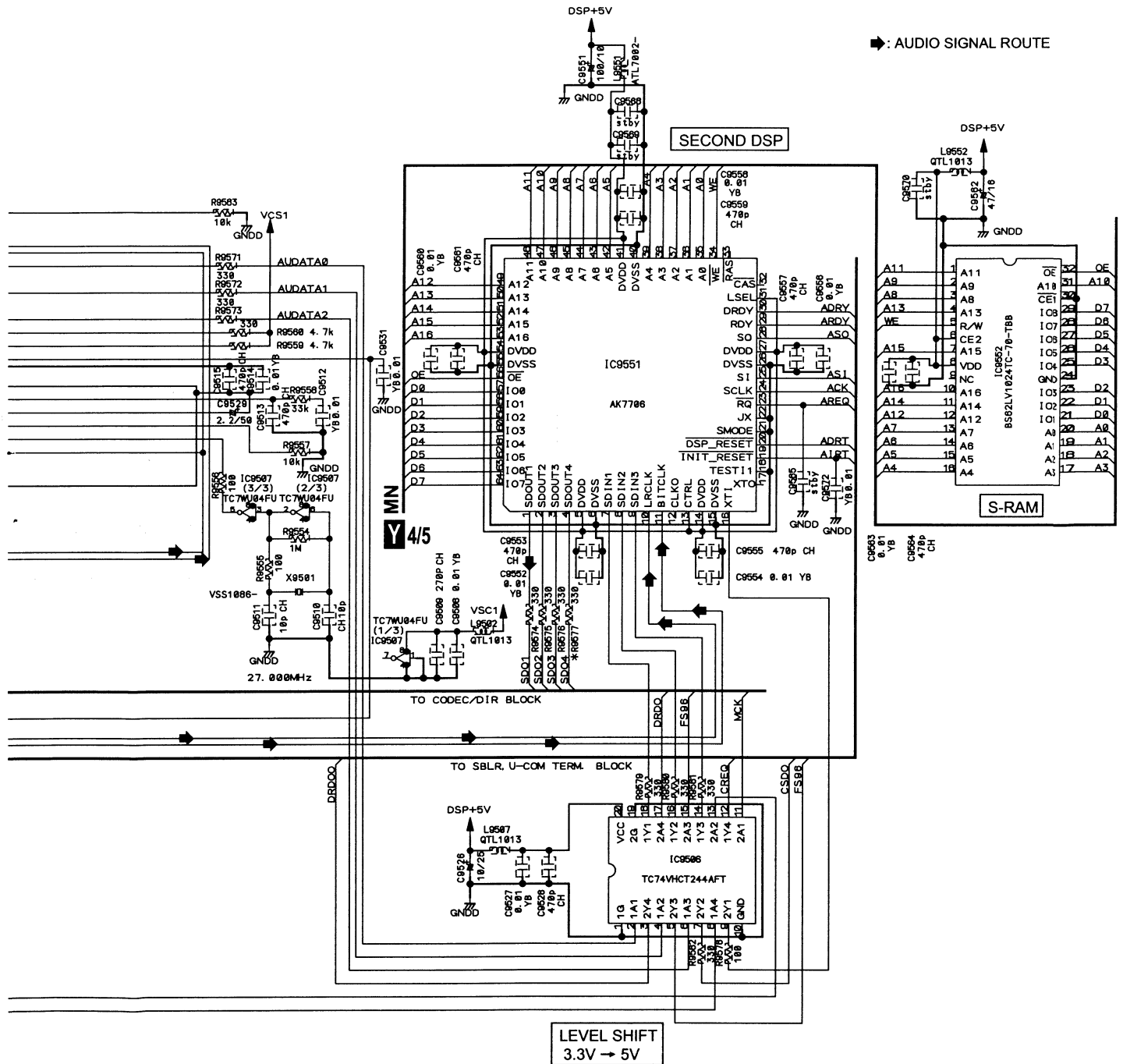
VSX-35TX, VSX-33TX

3.21 DSP ASSY (3/5)

Y 3/5 DSP ASSY
(VSX-35TX : AWX7561)(VSX-33TX : AWX7611)



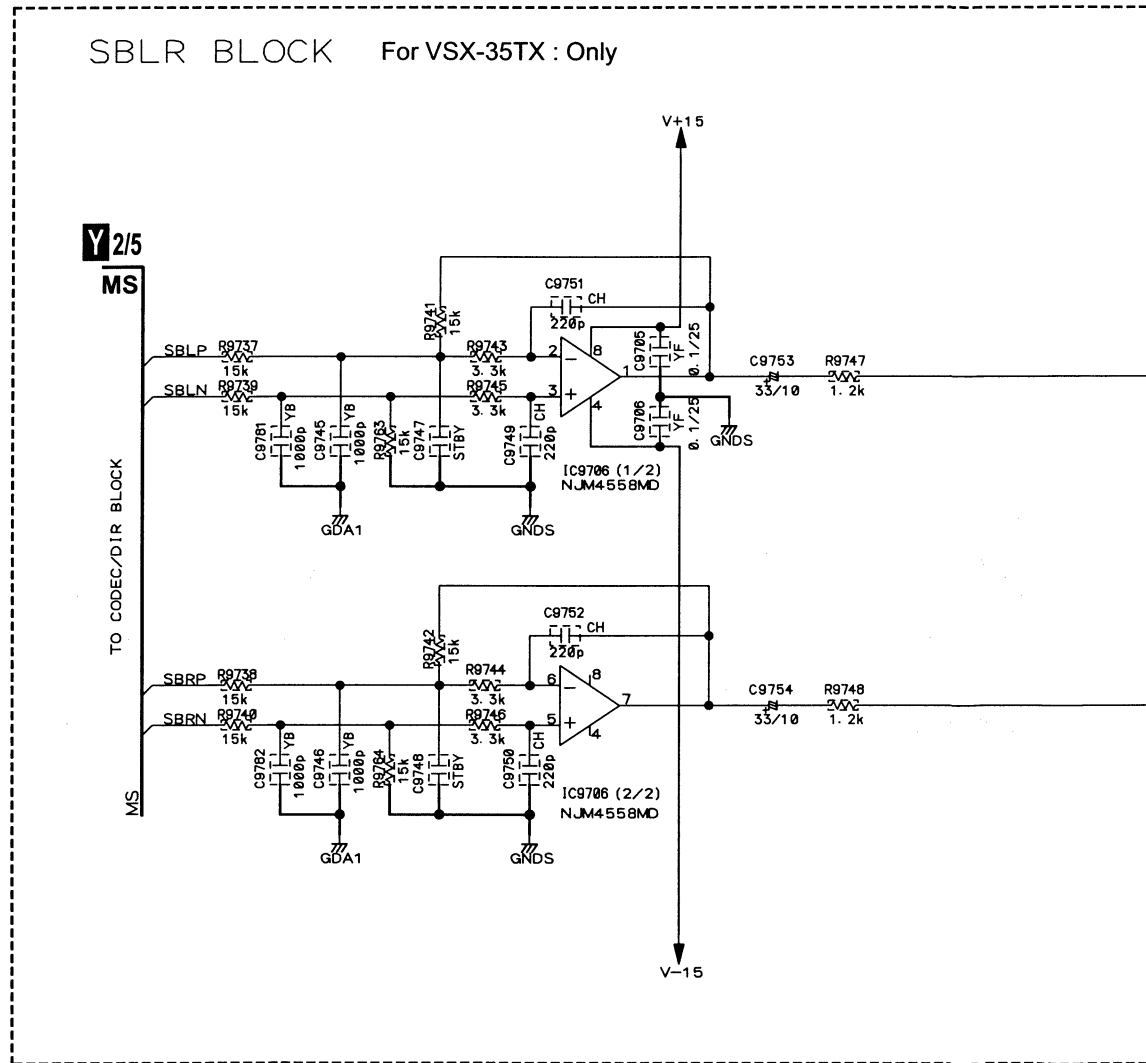
VSX-35TX, VSX-33TX



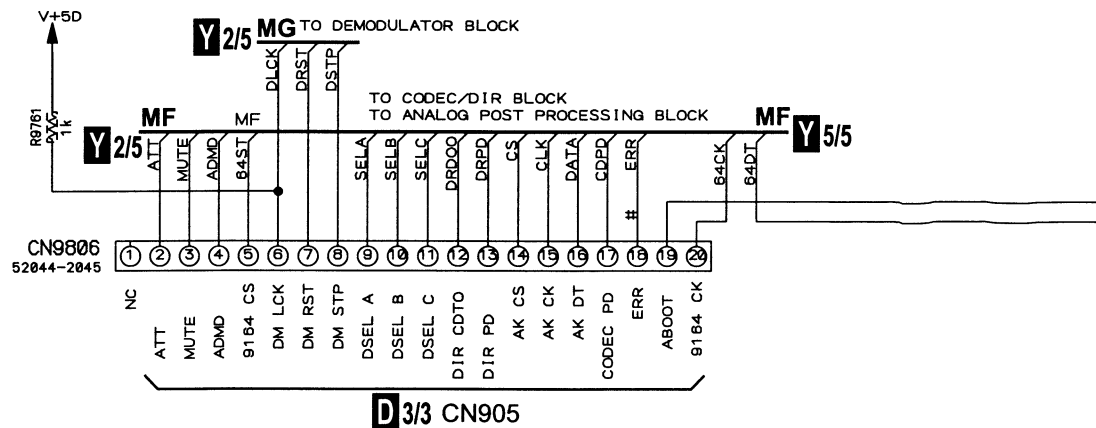
VSX-35TX, VSX-33TX

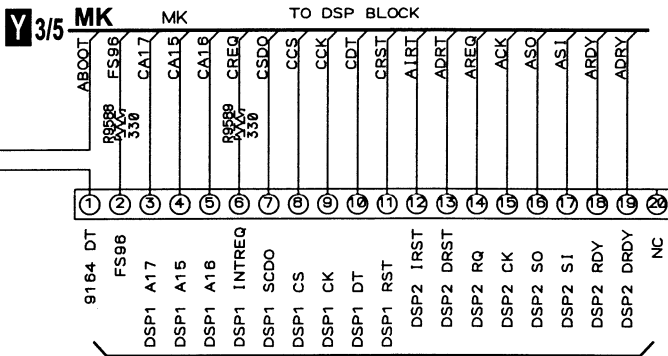
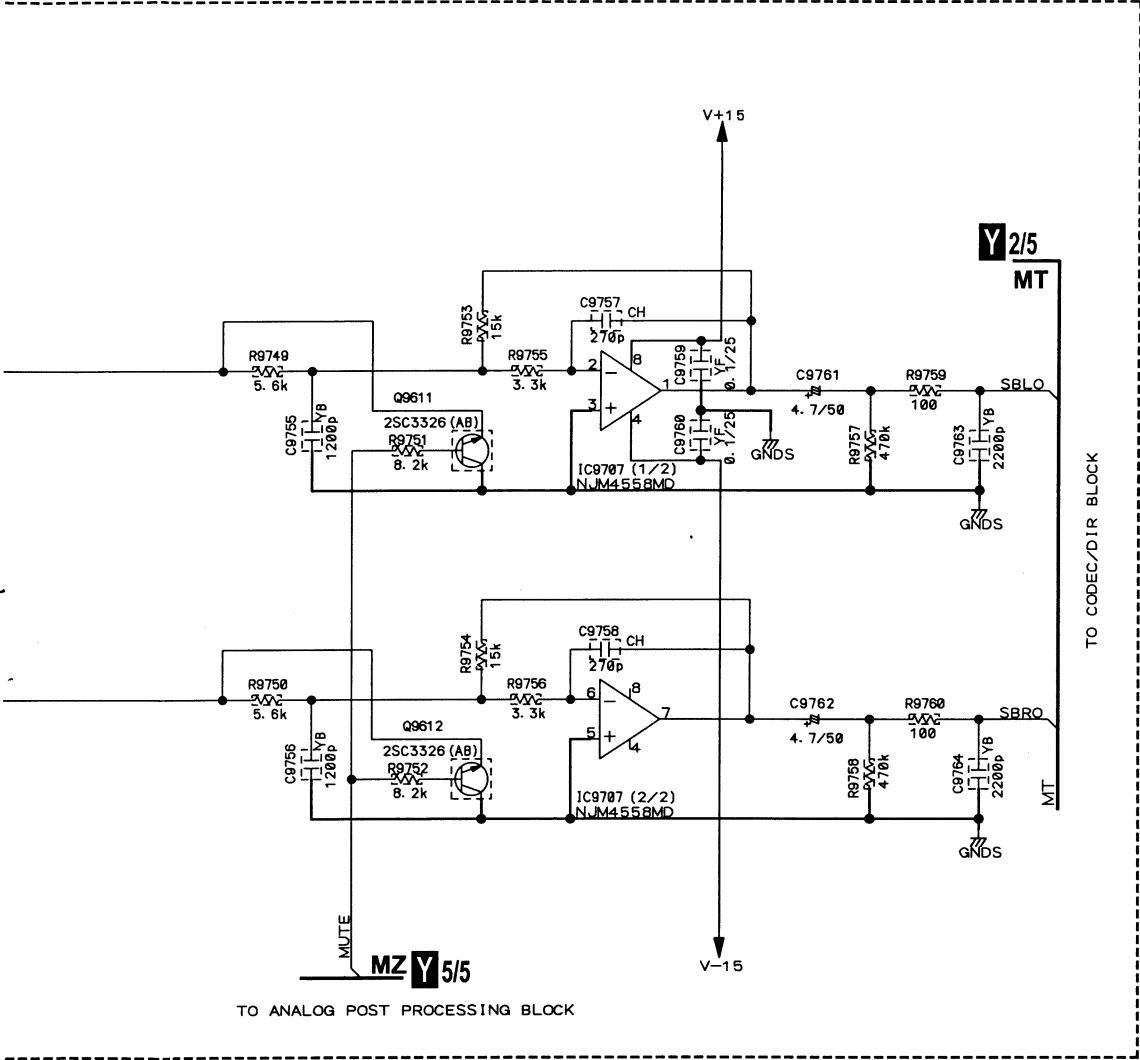
3.22 DSP ASSY (4/5)

Y 4/5 DSP ASSY
(VSX-35TX : AWX7561) (VSX-33TX : AWX7611)



U-COM TERM. BLOCK





	VSX-35TX	VSX-33TX
DEMODULATOR	×	×
MPEG BC	×	×
MPEG AAC	×	×
Dolby EX	○	×
OPT OUT	2	1
OPT IN (FRONT)	○	×

CN9805
52044-2045

D3/3 CN908

VSX-35TX, VSX-33TX

3.23 DSP ASSY (5/5)

Y 5/5

DSP ASSY
(VSX-35TX : AWX7561)
(VSX-33TX : AWX7611)

Y 4/5

MP

D/A OUT FILTER & AMP

TO CODEC/DIR BLOCK

MP

Y 4/5

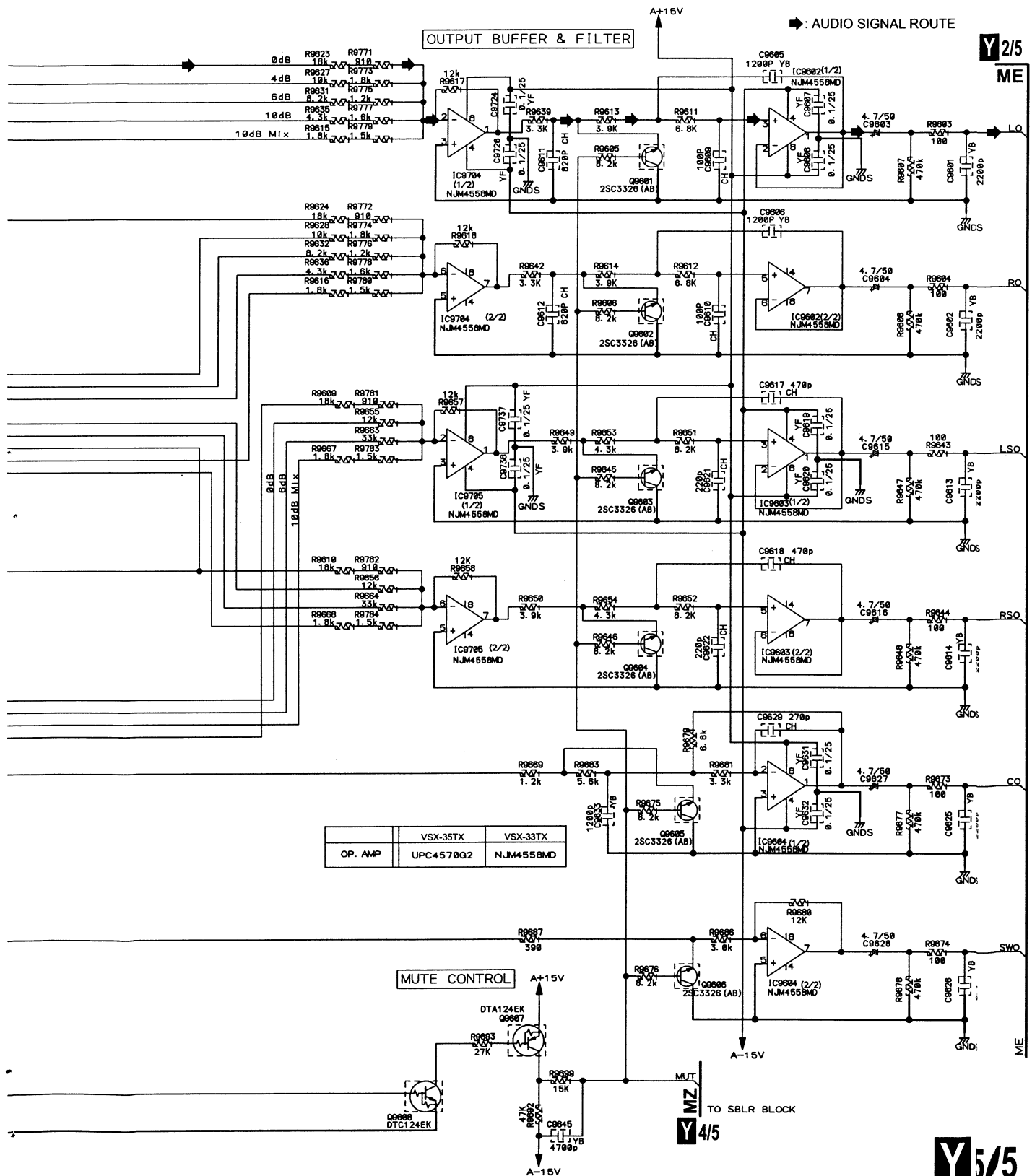
MF

MIXER & GAIN SW.

MUTE CONTROL

Y 5/5

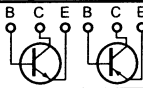
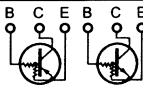
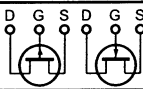
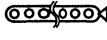
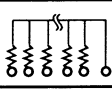
VSX-35TX, VSX-33TX



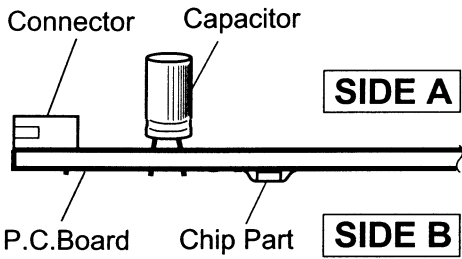
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

- 1. Part numbers in PCB diagrams match those in the schematic diagrams.
- 2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

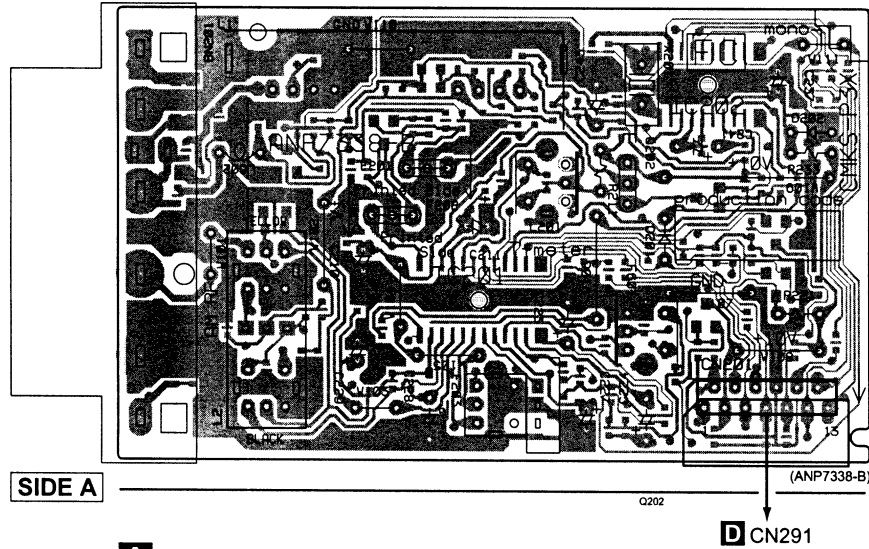
- 3. The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.
- 4. View point of PCB diagrams.



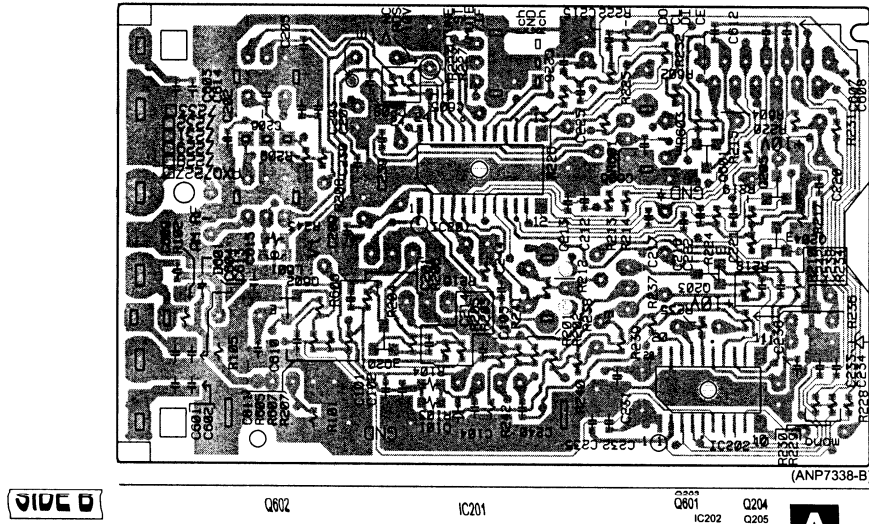
VSX-35TX, VSX-33TX

4.1 FM/AM TUNER UNIT

A FM/AM TUNER UNIT



A FM/AM TUNER UNIT

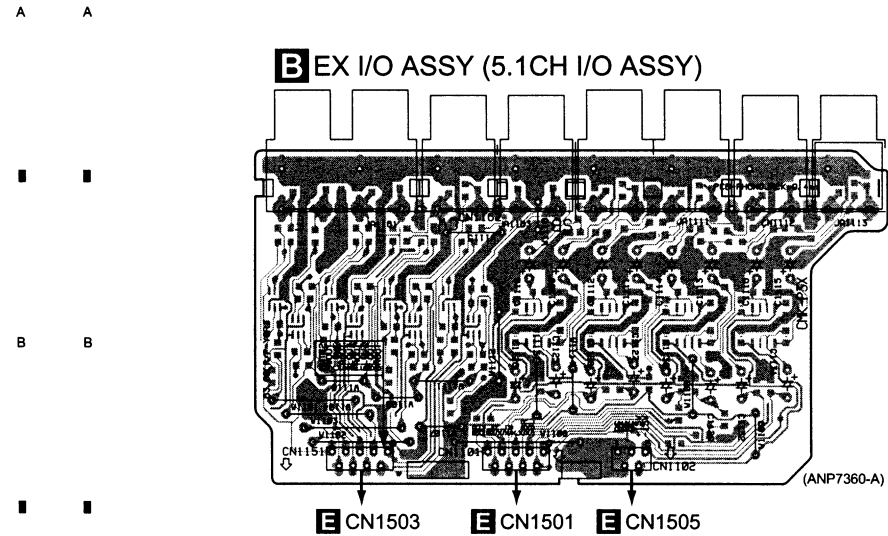


49

VSX-35TX, VSX-33TX

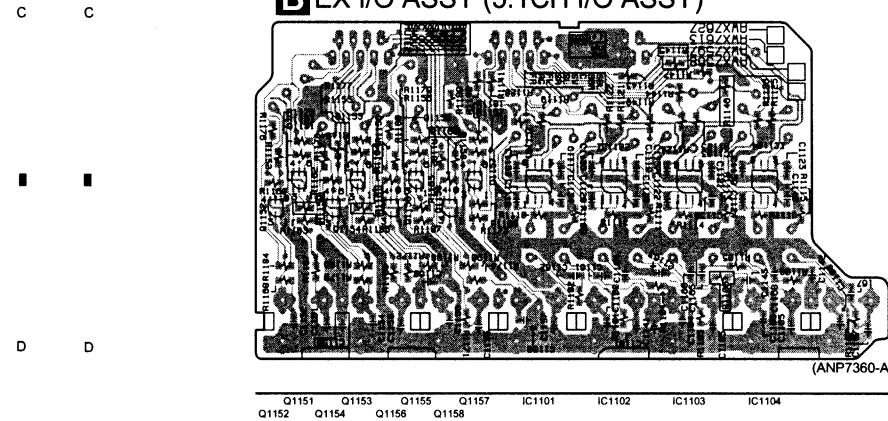
4.2 EX I/O ASSY (5.1CH I/O ASSY)

B EX I/O ASSY (5.1CH I/O ASSY)



SIDE A

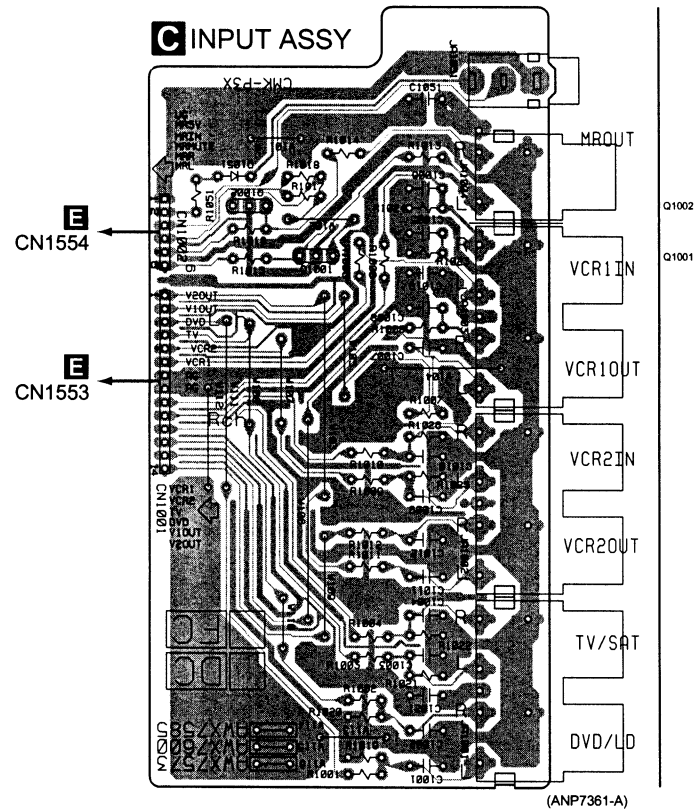
B EX I/O ASSY (5.1CH I/O ASSY)



SIDE B

50

4.3 INPUT ASSY

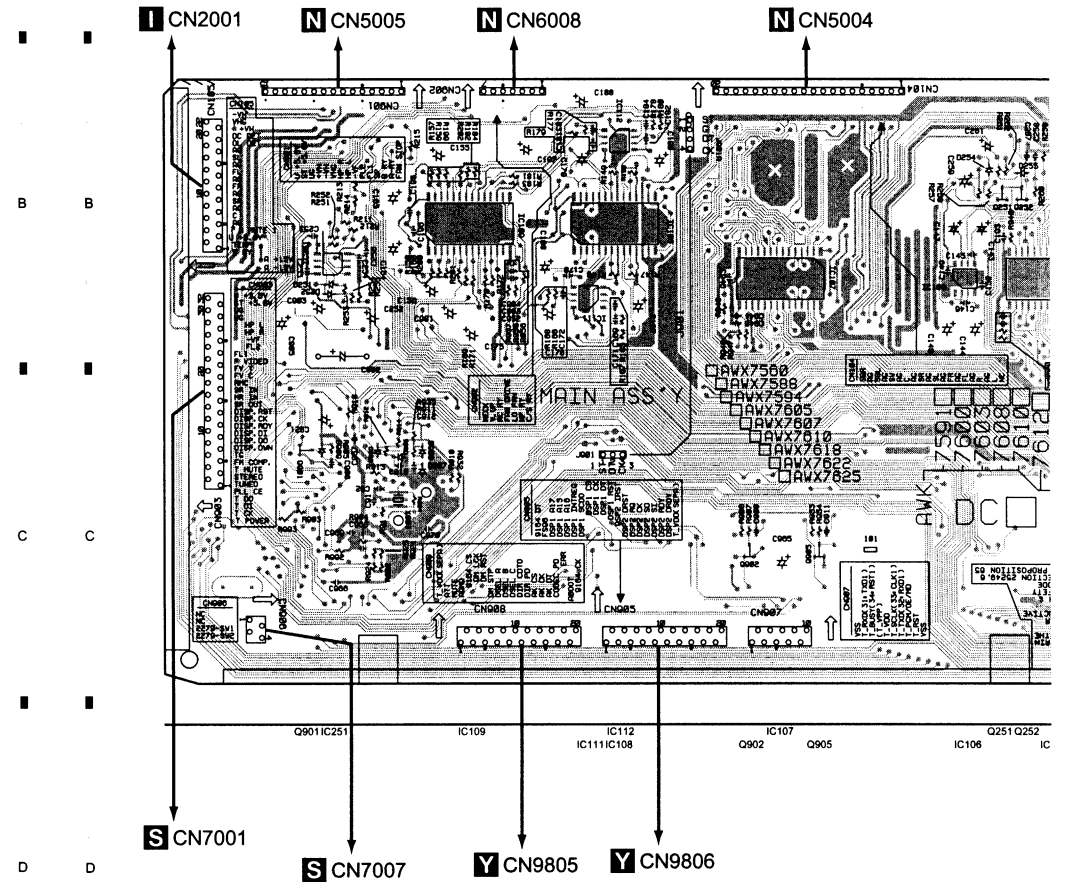


SIDE A

C 51

4.4 MAIN CONTROL ASSY

D MAIN CONTROL ASSY



D 52

A A

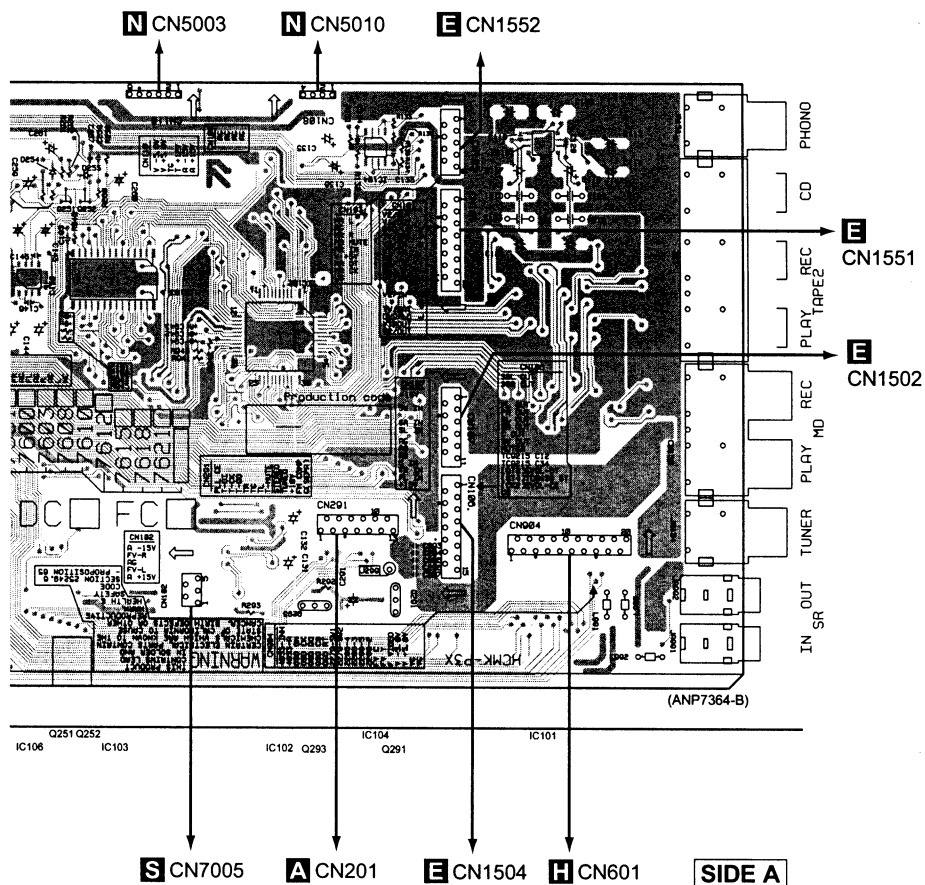
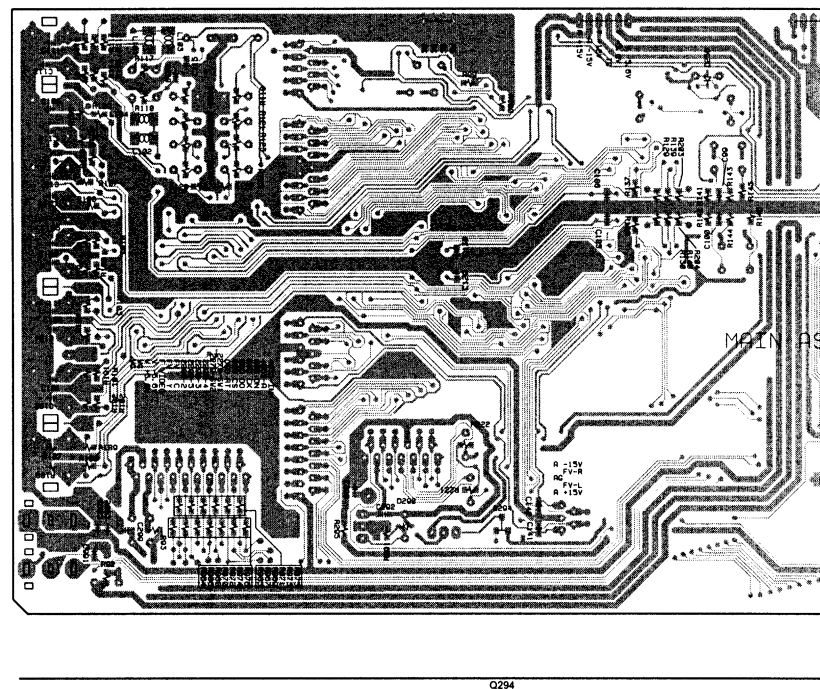
B B

C C

D D

D 53 D 54

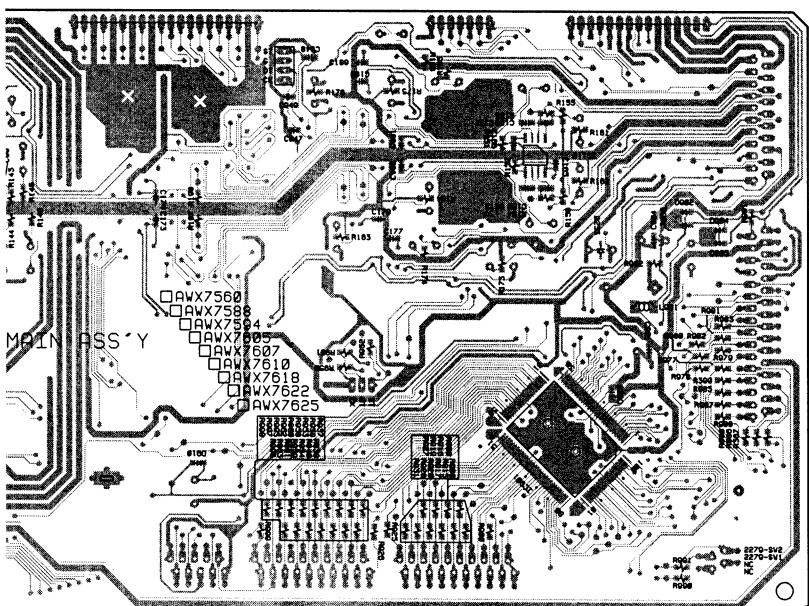
D MAIN CONTROL ASSY



VSX-35TX, VSX-33TX

VSX-35TX, VSX-33TX

4.5 A-CONNECTION ASSY



(ANP7364-B)

IC110 IC901

SIDE B

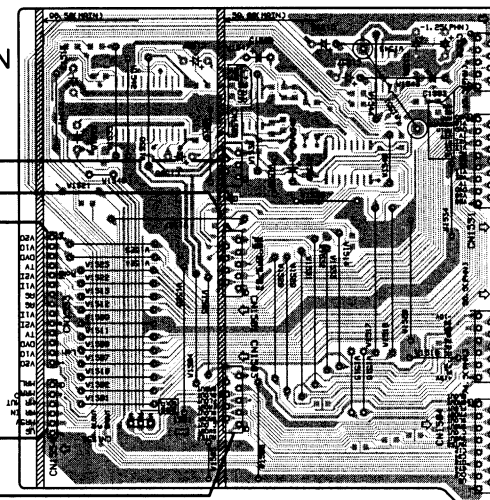
D

55

E
A-CONNECTION
ASSY

B CN1102
B CN1101
C CN1001

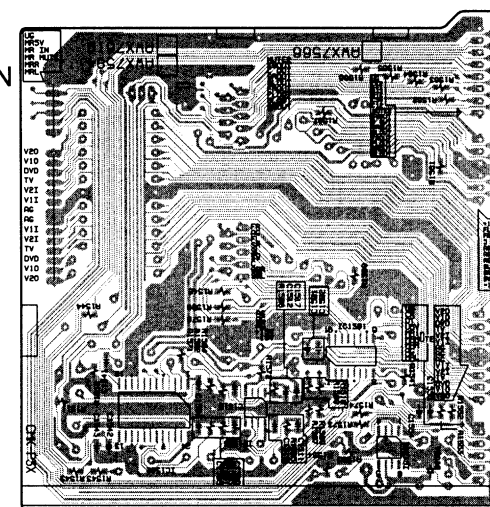
C CN1002
B CN1151



(ANP7360-A)

SIDE A

E
A-CONNECTION
ASSY



(ANP7360-A)

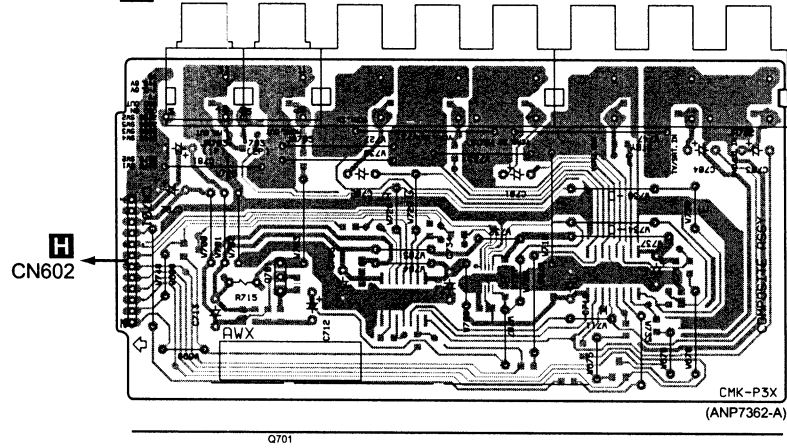
SIDE B

E

56

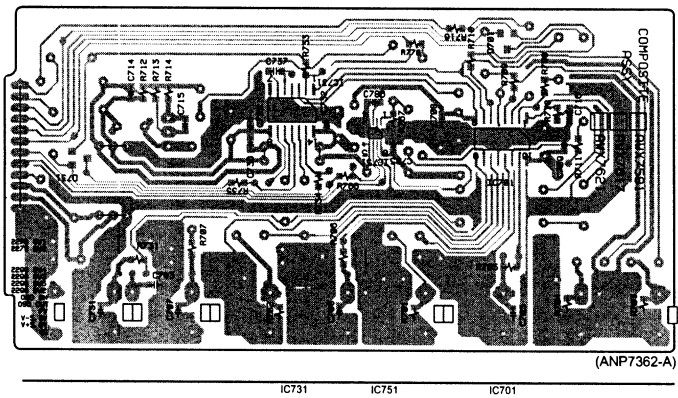
4.6 COMPOSITE ASSY

F COMPOSITE ASSY



SIDE A

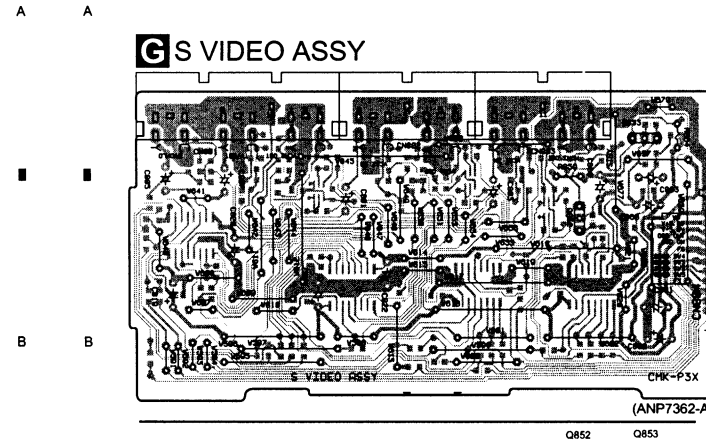
F COMPOSITE ASSY



SIDE B

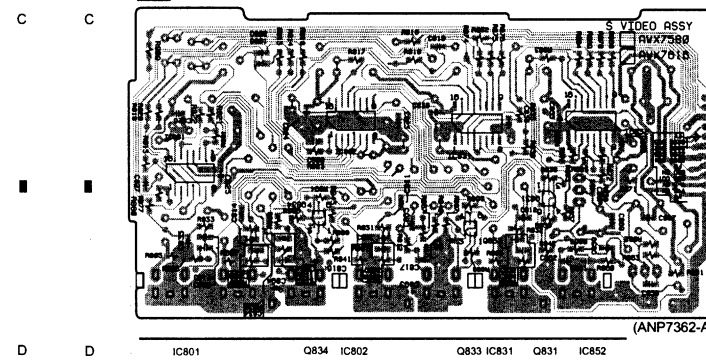
4.7 S VIDEO and V-CONNECTION ASSYS

G S VIDEO ASSY



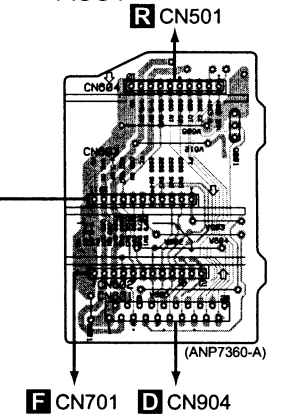
SIDE A

G S VIDEO ASSY

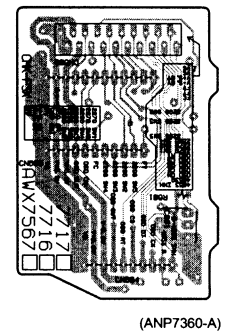


SIDE B

H V-CONNECTION ASSY

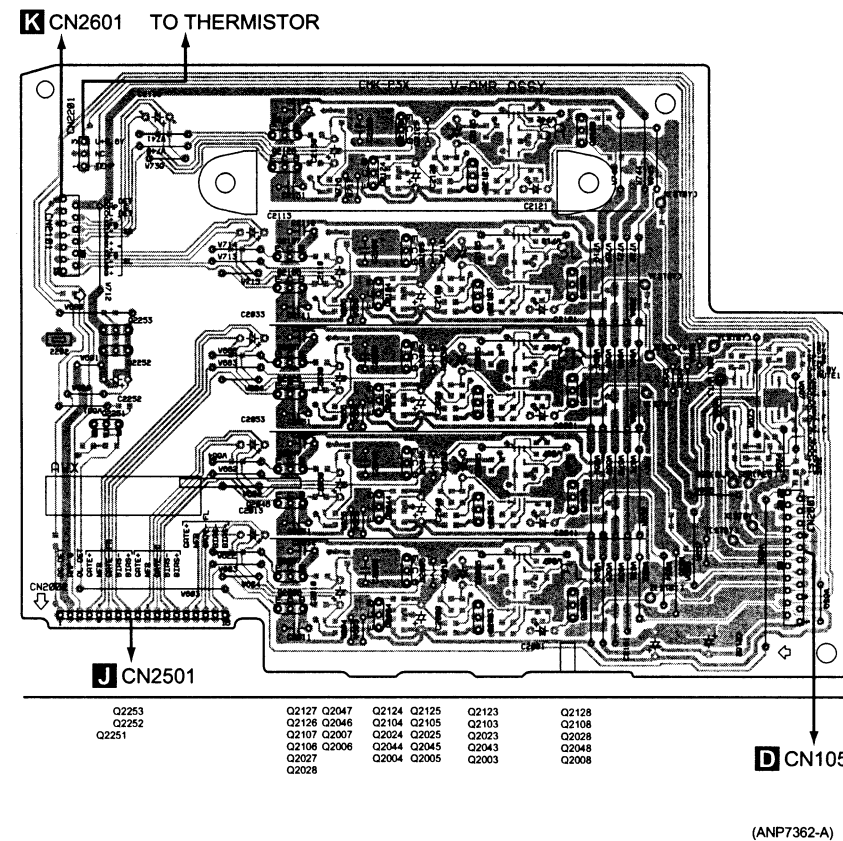


H V-CONNECTION ASSY



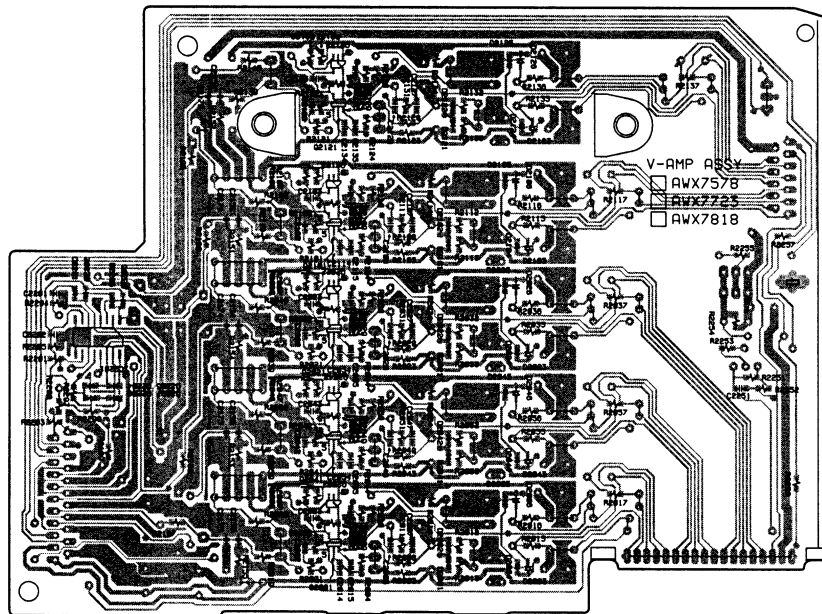
4.9 V-AMP ASSY

I V-AMP ASSY



VSX-35TX, VSX-33TX

I V-AMP ASSY



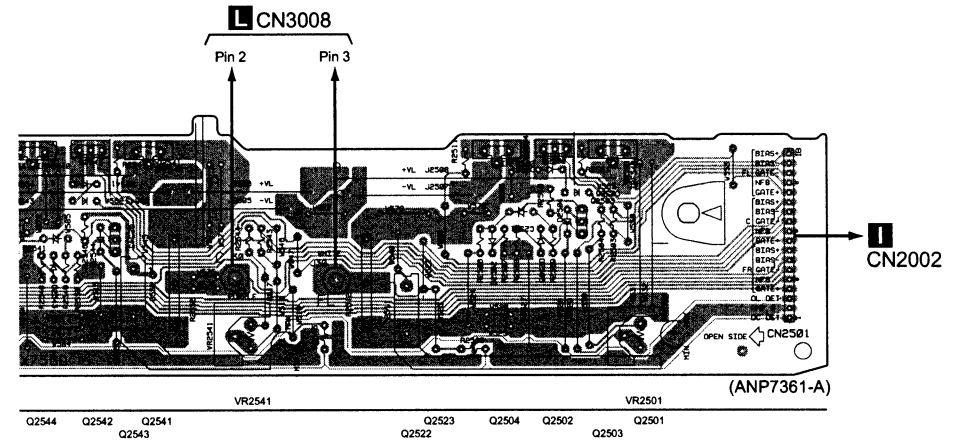
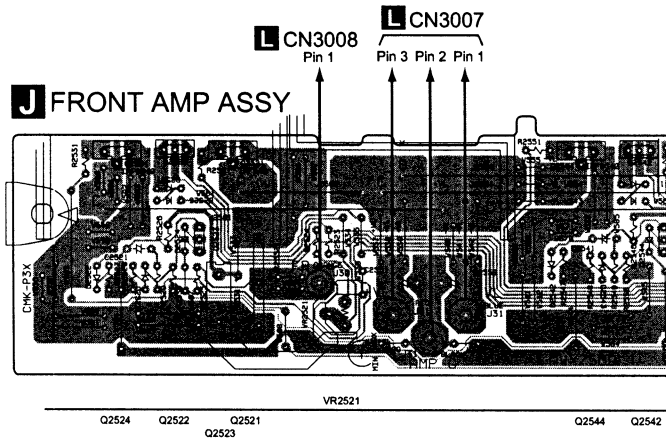
IC2201

Q2122 Q2042
Q2121 Q2041
Q2101 Q2002
Q2022 Q2001
Q2021

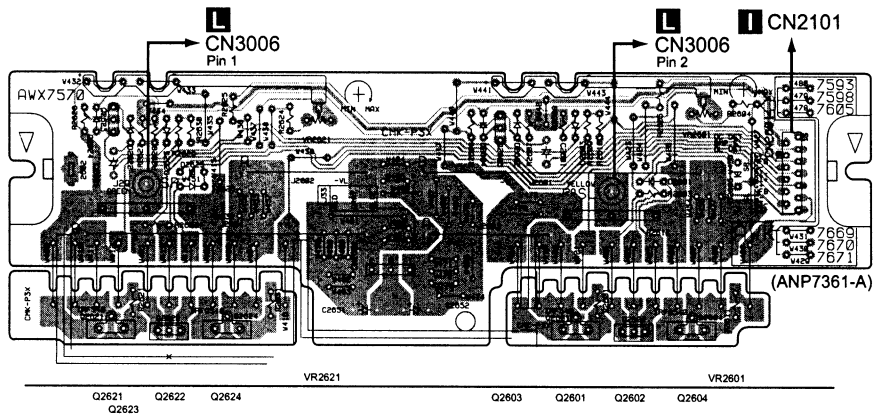
(ANP7362-A)

SIDE B

4.10 FRONT AMP and REAR AMP ASSYS



K REAR AMP ASSY

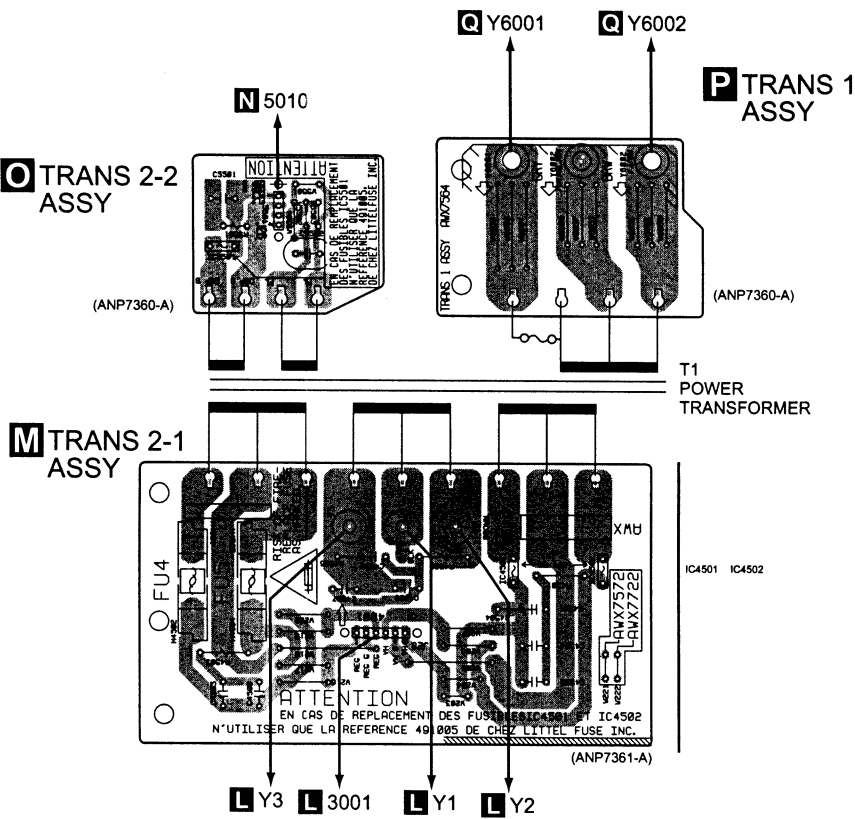


01



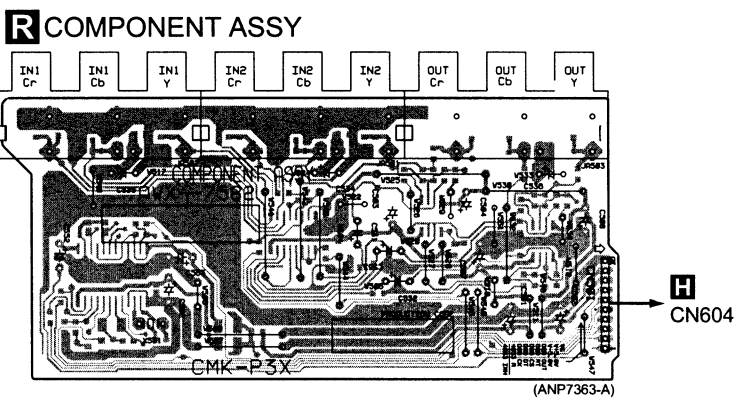
SIDE A

4.11 TRANS 2-1, TRANS 2-2 and TRANS 1 ASSYS

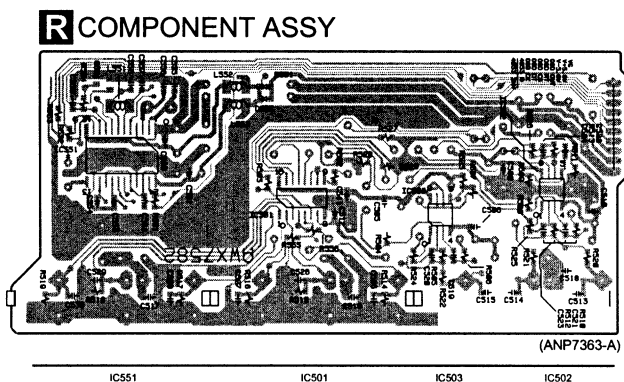


SIDE A

4.12 COMPONENT ASSY



SIDE A



SIDE B

VSX-35TX, VSX-33TX

4.13 REGULATOR and PRIMARY ASSYS

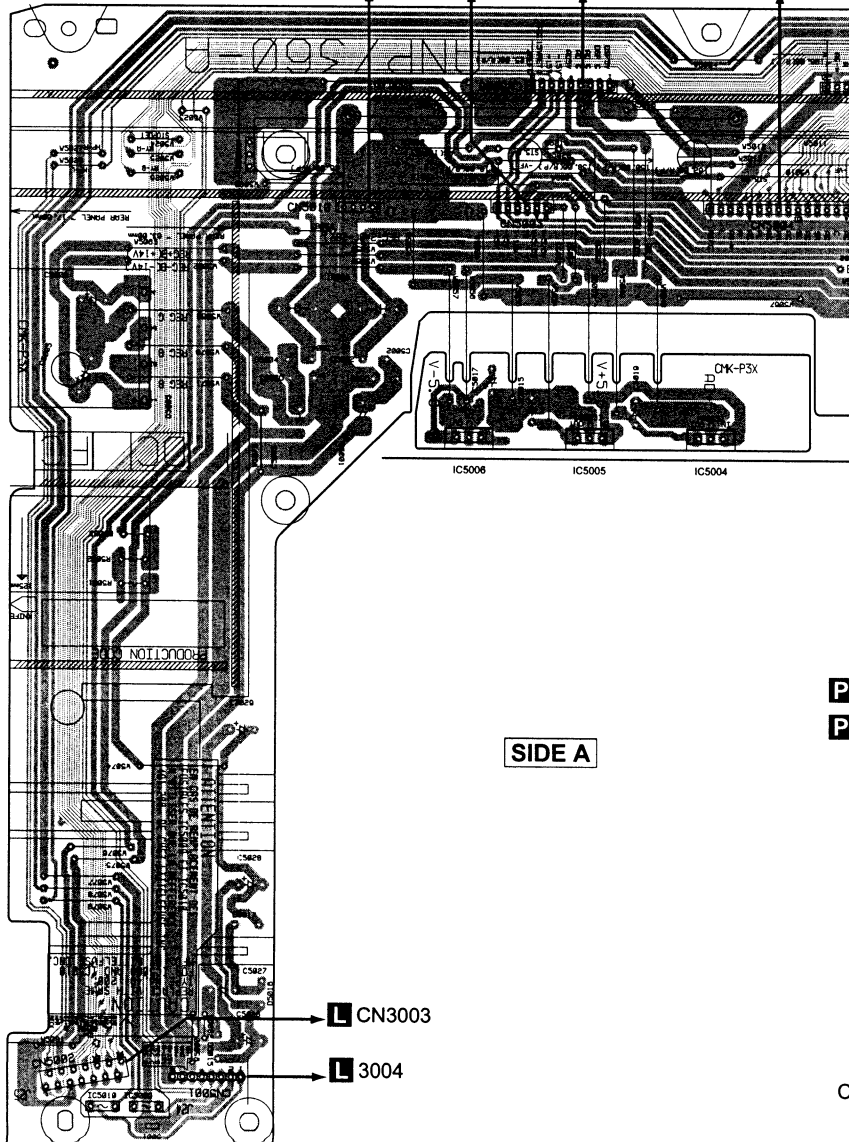
N REGULATOR ASSY

D CN108

D CN110

Y CN9802

D CN104



SIDE A

L CN3003

L 3004

P
P

C

VSX-35TX, VSX-33TX

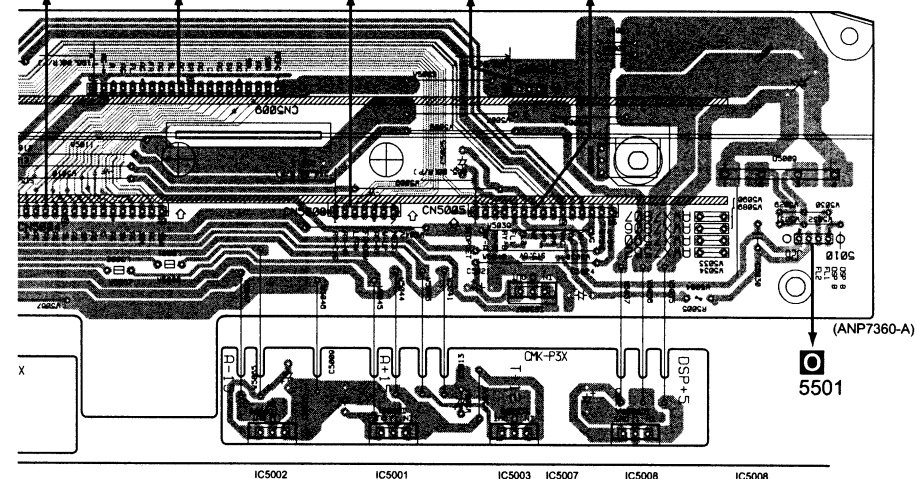
D CN104

Y CN9801

D CN902

Y CN9803

D CN901



(ANP7360-A)

5501

Q PRIMARY ASSY

P Y6002

P Y6001

L CN3005

(ANP7360-A)

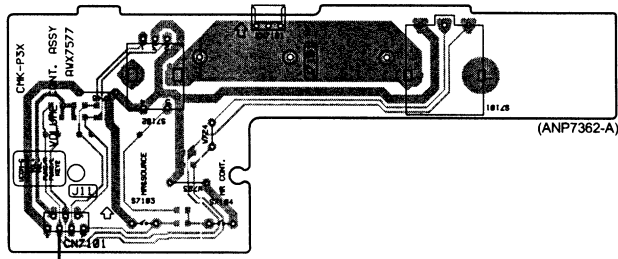
L CN3010

N **Q**

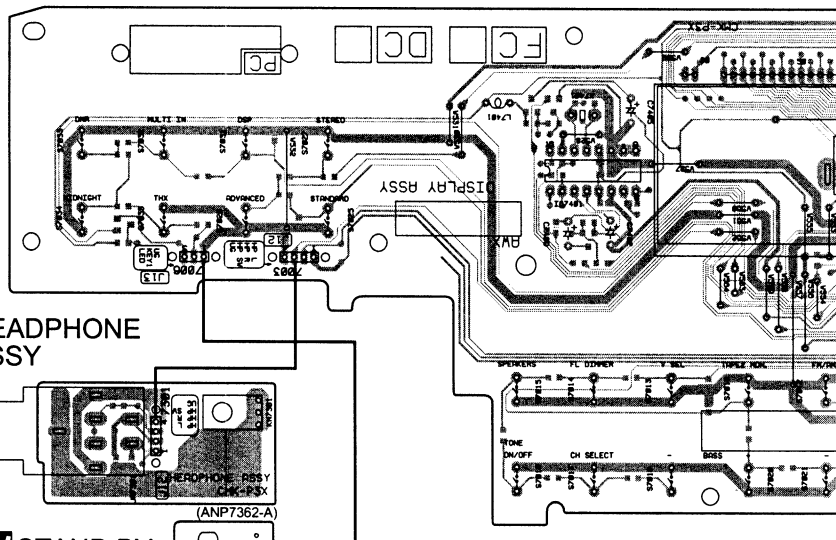
67

4.14 DISPLAY, VOLUME-CONT, HEADPHONE, FRONT AV and STANDBY ASSYS

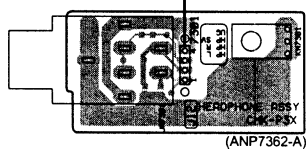
T VOLUME-CONT ASSY



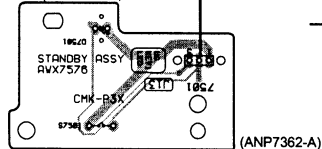
S DISPLAY ASSY



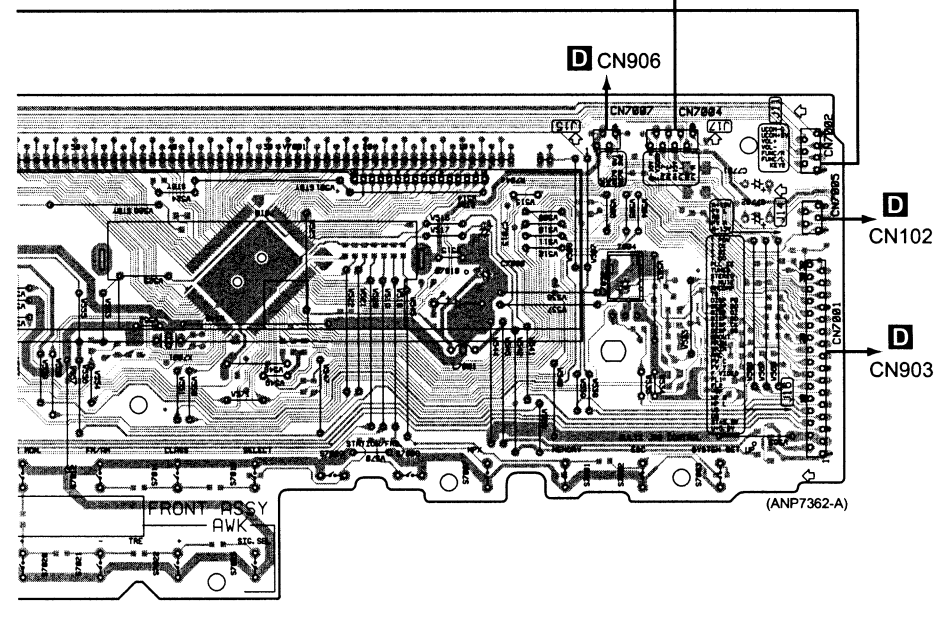
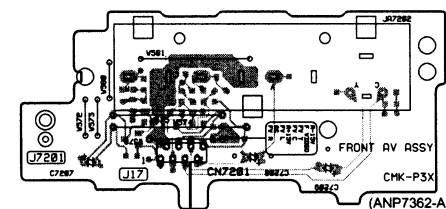
U HEADPHONE ASSY



W STANDBY ASSY

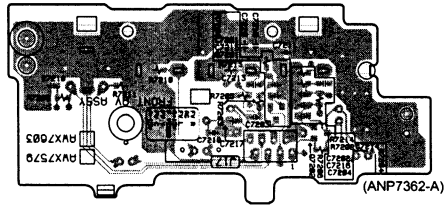


V FRONT AV ASSY

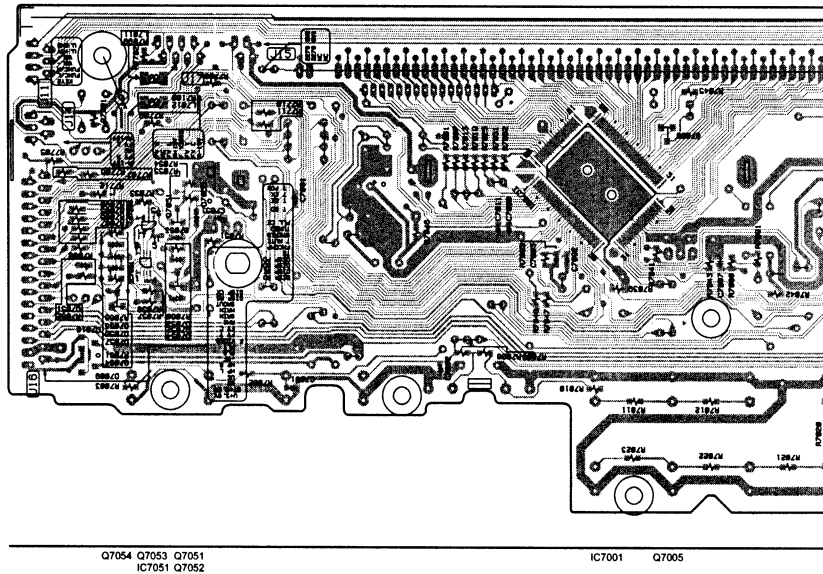


SIDE A

V FRONT AV ASSY

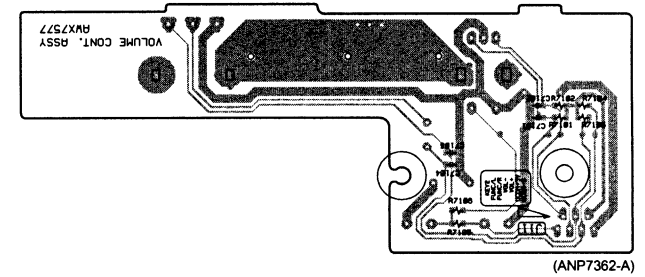


S DISPLAY ASSY

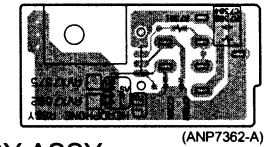


SIDE B

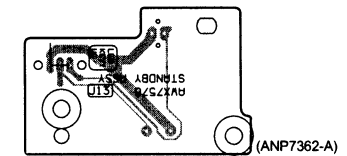
T VOLUME-CONT ASSY



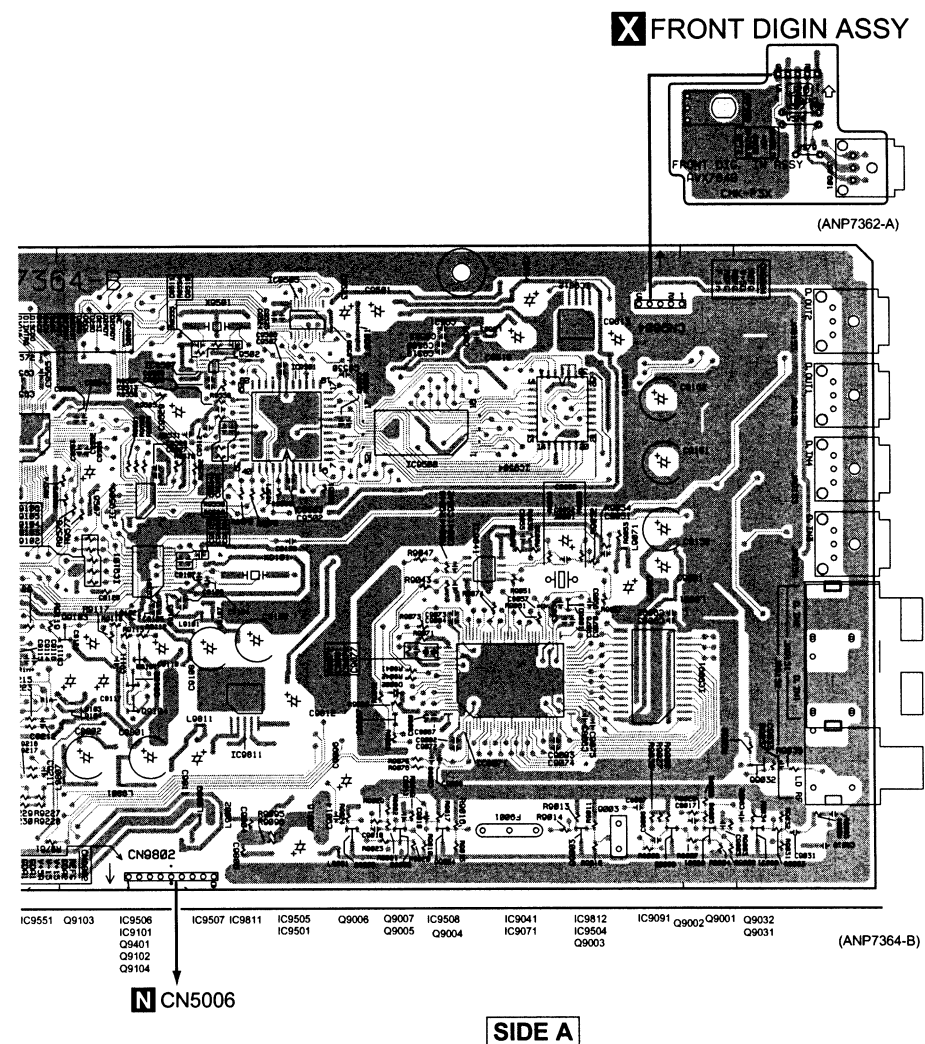
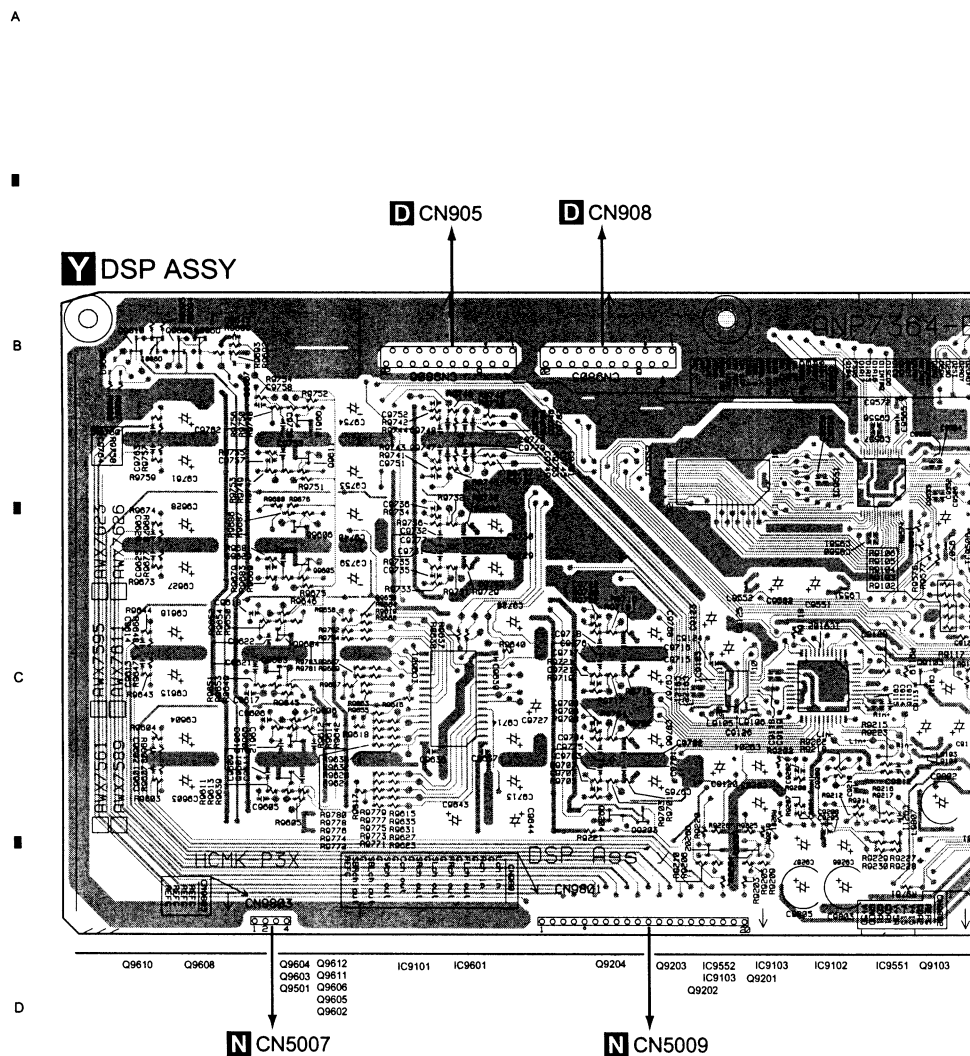
U HEADPHONE ASSY



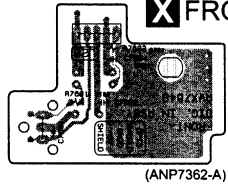
W STAND BY ASSY



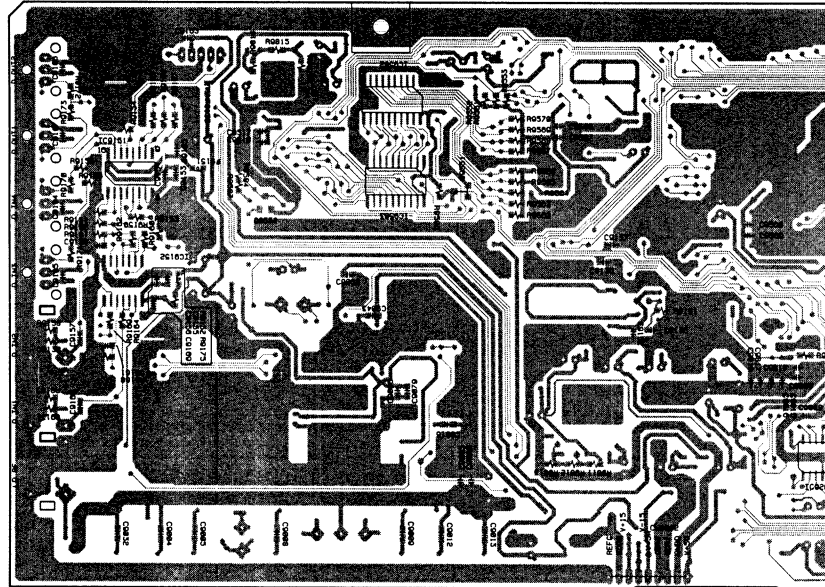
4.15 DSP and FRONT DIGIN ASSYS



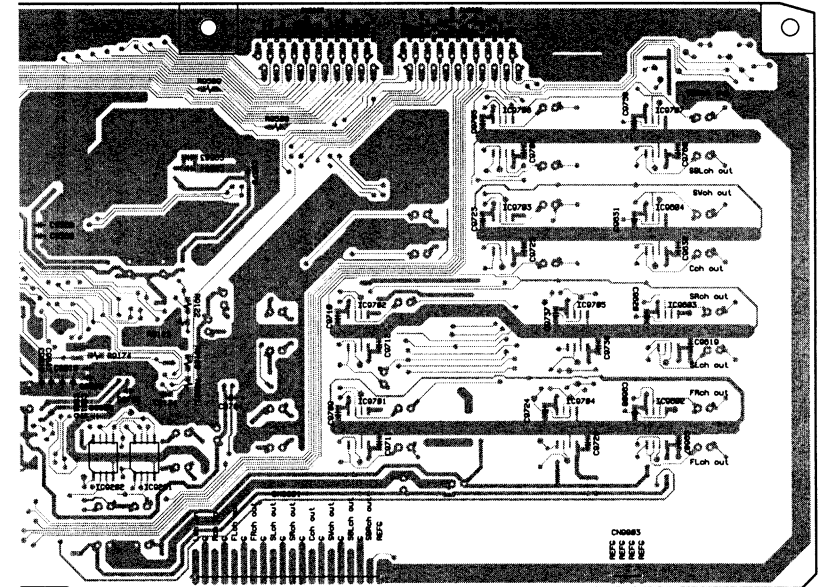
X FRONT DIGIN ASSY



Y DSP ASSY



Q9610 Q9608 Q9604 Q9612 IC9101 IC9502 Q9501 IC9202
Q9603 Q9611 IC9503
Q9501 Q9606
Q9605
Q9602



IC9202 IC9201 IC9702 IC9701 IC9706 IC9703 IC9705 IC9704 IC9702 IC9604 IC9603 IC9602
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(ANP7364-B)

SIDE B

5. PCB PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

● The Δ mark found on some component parts indicates the importance of the safety factor of the part.

Therefore, when replacing, be sure to use parts of identical designation.

● When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω $\rightarrow$ 56×10^1 $\rightarrow$ 561 RD1/4PU $\begin{bmatrix} 5 & 6 & 1 \end{bmatrix}$ J
 47k Ω $\rightarrow$ 47×10^3 $\rightarrow$ 473 RD1/4PU $\begin{bmatrix} 4 & 7 & 3 \end{bmatrix}$ J
 0.5 Ω $\rightarrow$ R50 RN2H $\begin{bmatrix} R & 5 & 0 \end{bmatrix}$ K
 1 Ω $\rightarrow$ 1R0 RS1P $\begin{bmatrix} 1 & R & 0 \end{bmatrix}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω $\rightarrow$ 562×10^1 $\rightarrow$ 5621 RN1/4PC $\begin{bmatrix} 5 & 6 & 2 & 1 \end{bmatrix}$ F

■ LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	Part No.		Remarks
		VSX-35TX/KUXJII/CA	VSX-33TX/KUXJII/CA	
	FM/AM TUNER UNIT	AXQ7231	AXQ7231	
NSP	COMPLEX ASSY	AWK7592	AWK7613	
	— EX I/O ASSY	AWX7568	Not used	
	— 5.1CH I/O ASSY	Not used	AWX7613	
	— A-CONNECTION ASSY	AWX7566	AWX7619	
	— TRANS 2-2 ASSY	AWX7565	AWX7720	
	— REGULATOR ASSY	AWX7562	AWX7562	
	— V-CONNECTION ASSY	AWX7567	AWX7717	
NSP	— PRIMARY ASSY	AWX7563	AWX7563	
	— TRANS 1 ASSY	AWX7564	AWX7564	
NSP	POWER ASSY	AWK7593	AWK7598	
	— INPUT ASSY	AWX7573	AWX7585	
	— FRONT AMP ASSY	AWX7569	AWX7569	
	— REAR AMP ASSY	AWX7570	AWX7570	
	— SP/PS ASSY	AWX7571	AWX7721	
	— TRANS 2-1 ASSY	AWX7572	AWX7572	
NSP	MAIN ASSY	AWK7591	AWK7612	
	— MAIN CONTROL ASSY	AWX7560	AWX7610	
	— DSP ASSY	AWX7561	AWX7611	
NSP	FRONT ASSY	AWK7594	AWK7614	
	— V-AMP ASSY	AWX7578	AWX7578	
	— S VIDEO ASSY	AWX7580	AWX7616	
	— COMPOSITE ASSY	AWX7581	AWX7617	
	— FRONT AV ASSY	AWX7579	AWX7579	
	— DISPLAY ASSY	AWX7574	AWX7614	
	— VOLUME-CONT ASSY	AWX7577	AWX7577	
	— HEADPHONE ASSY	AWX7602	AWX7602	
	— FRONT DIGIN ASSY	AWX7648	Not used	
	— STAND BY ASSY	AWX7576	AWX7576	
NSP	VIDEO ASSY	AWK7595	Not used	
	— COMPONENT ASSY	AWX7582	Not used	

C INPUT ASSY

AWX7573 and AWX7585 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7573	AWX7585	
	Q1001, Q1002	2SC2878	Not used	
	D1051	1SS133	Not used	
	C1051	CGCYX103M16	Not used	
	R1013-R1016, R1051	RD1/4PU102J	Not used	
	R1017, R1018	RD1/4PU473J	Not used	
	CN1002	6P SOCKET	KP200TA6L	Not used
	JA1004	2P PIN JACK	AKB7046	Not used
	JA1051	MULTI ROOM JACK	AKN7014	Not used

D MAIN CONTROL ASSY

AWX7560 and AWX7610 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7560	AWX7610	
	IC101	M5220FP	Not used	
	IC103	TC9164AF	Not used	
	IC104	NJM4558MD	Not used	
	Q905	DTA124EK	Not used	
	C113, C114	CEAT100M50	Not used	
	C115, C116	CCSQCH181J50	Not used	
	C117, C118	CEAT470M25	Not used	
	C121, C122	CQMA822J50	Not used	
	C123, C124	CQMA242J50	Not used	
	C125, C126	CEAT2R2M50	Not used	
	C127, C128	CEJQ101M25	Not used	
	C133, C134, C911	CKSRYB103K50	Not used	
	C135, C136	CEAT1R0M50	Not used	
	C191-C193	CCSRCH101J50	Not used	
	R111, R112	RS1/10S0R0J	Not used	
	R113, R114, R117, R118, R129, R130, R139, R140	RS1/10S104J	Not used	
	R203, R204	RS1/10S104J	Not used	
	R115, R116	RS1/10S331J	Not used	
	R119, R120	RS1/10S511J	Not used	
	R121, R122	RS1/10S394J	Not used	
	R123, R124	RS1/10S303J	Not used	
	R125, R126, R133, R134	RS1/10S471J	Not used	
	R131, R132	RS1/10S474J	Not used	
	R135, R136, R934, R944-R946	RS1/16S102J	Not used	
	R923	Not used	RS1/16S103J	
	R924	RS1/16S103J	Not used	
	R933	RS1/16S473J	Not used	
	R990, R991	RS1/10S102J	Not used	
	CN103	9P PLUG	AKP7057	Not used
	CN906	4P FFC CONNECTOR	52045-0445	Not used
	JA151	2P PIN JACK	VKB1060	Not used

VSX-35TX, VSX-33TX
VSX-35TX, VSX-33TX
E A-CONNECTION ASSY

AWX7566 and AWX7619 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7566	AWX7619	
IC1501		TC9215AF	Not used	
IC1502		TC9459F	Not used	
IC1503		NJM4558MD	Not used	
IC1551		M62429FP	Not used	
D1551		UDZS5.1B	Not used	
C1501-C1504, C1517, C1518		CKSQYB103K50	Not used	
C1507, C1508		CEAT100M50	Not used	
C1511, C1512		CCSQCH500J50	Not used	
C1515, C1516, C1551-C1553		CEAT100M50	Not used	
C1541-C1543		CCSQCH101J50	Not used	
C1554, C1555		CCSQCH101J50	Not used	
C1556, C1557		CEAT1R0M50	Not used	
R1503, R1504, R1511, R1512		RS1/10S104J	Not used	
R1505, R1506, R1554, R1555		RS1/10S103J	Not used	
R1507, R1508		RS1/10S472J	Not used	
R1509, R1510		RS1/10S152J	Not used	
R1541-R1545, R1552, R1553		RS1/10S102J	Not used	
R1551		RS3LMF391J	Not used	
R1569-R1574		RS1/10S0R0J	Not used	
CN1552 9P SOCKET		AKP7068	Not used	
CN1554 6P PLUG		KM200TA6	Not used	

F COMPOSITE ASSY

AWX7581 and AWX7617 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7581	AWX7617	
IC731		NJM2279M	Not used	
IC751		TC4W53FU	Not used	
Q701		2SA933S	Not used	
D731		DAN202K	Not used	
C707		CCSQCH181J50	Not used	
C712, C734, C735		CEAT101M10	Not used	
C713		CEAT101M16	Not used	
C714, C732, C733, C736, C785, C786		CKSQYB473K50	Not used	
C715		CCSQCH150J50	Not used	
C737		CCSQCH470J50	Not used	
R707		RS1/10S750J	Not used	
R712		RS1/10S183J	Not used	
R713		RS1/10S103J	Not used	
R714		RS1/10S101J	Not used	
R715		RD1/2VM201J	Not used	
R733-R735, R766		RS1/10S102J	Not used	
R767		RS1/10S104J	Not used	
JA703		Not used	VKB1048	
703 2P PIN JACK		AKB7017	Not used	

G S VIDEO ASSY

AWX7580 and AWX7616 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7580	AWX7616	
IC852		BU4053BCF	Not used	
C854		CCSQCH151J50	Not used	
C855, C856		CKSQYB103K50	Not used	
R855		RS1/10S103J	Not used	
R868-R870		RS1/10S102J	Not used	
R883, R885		Not used	RS1/10S0R0J	
R884		RS1/10S0R0J	Not used	

H V-CONNECTION ASSY

AWX7567 and AWX7717 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7567	AWX7717	
C601		KRC103M	Not used	
C601		CKSQYB103K50	Not used	
R601		RS1/10S103J	Not used	
CN604 10P PLUG		KM200TA10	Not used	

L SP/PS ASSY

AWX7571 and AWX7721 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7571	AWX7721	
L3111, L3112	BEAD FILTER	ATX1012	Not used	
C3001, C3002		ACH7147	ACH7145	

O TRANS 2-2 ASSY

AWX7565 and AWX7720 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7565	AWX7720	
C5501, C5502		CQMA104J50	Not used	
R5501		RD1/4MUF100J	Not used	

S DISPLAY ASSY

AWX7574 and AWX7614 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7574	AWX7614	
IC7051		TC7W53FU	Not used	
Q7053		FM1A	Not used	
Q7054		DTC124EK	Not used	
D7054-D7057		1SS355	Not used	
C7053		CKSQYB153K50	Not used	
R7056		RS1/10S223J	Not used	
R7057		RS1/10S392J	Not used	
R7058, R7061		RS1/10S103J	Not used	
CN7007 4P FFC CONNECTOR		52045-0445	Not used	

VSX-35TX, VSX-33TX

Y DSP ASSY

AWX7561 and AWX7611 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7561	AWX7611	
IC9103	IC9602-IC9604, IC9701-IC9705 IC9706, IC9707 Q9611, Q9612 L9105, L9106 CHIP SOLID INDUCTOR	CS4391	Not used	
IC9120		UPC4570G2	NJM4558MD	
C9121, C9124		UPC4570G2	Not used	
C9122		2SC3326	Not used	
C9123, C9125		QTL1013	Not used	
C9126	C9120, C9124 C9122 C9123, C9125 C9126	CEJA470M16	Not used	
C9167		CKSRYB103K50	Not used	
C9705, C9706, C9759, C9760		CCSRCH471J50	Not used	
C9745, C9746, C9781, C9782		CEJA1R0M50	Not used	
C9749-C9752		CKSRYB104K16	Not used	
C9753, C9754	C9755, C9756 C9757, C9758 C9761, C9762 C9763, C9764 R9104	CKSQYF104Z50	Not used	
		CKSQYF104Z25	Not used	
		CKSRYB102K50	Not used	
		CCSRCH221J50	Not used	
		CEJA330M10	Not used	
	R9120, R9122 R9121, R9749, R9750 R9123 R9154 R9173	CKSRYB122K50	Not used	
		CCSRCH271J50	Not used	
		CEJA4R7M50	Not used	
		CKSRYB222K50	Not used	
		RS1/16S101J	RS1/16S331J	
	R9577 R9737-R9742, R9753, R9754, R9763, R9764 R9743-R9746, R9755, R9756 R9747, R9748 R9751, R9752	RS1/10S681J	Not used	
		RS1/10S562J	Not used	
		RS1/10S182J	Not used	
		RS1/10S104J	RS1/10S0R0J	
		RS1/10S0R0J	Not used	
	R9757, R9758 R9759, R9760 CN9804 KR CONNECTOR JA9156 OPTICAL LINK OUT	RS1/16S331J	Not used	
		RS1/10S153J	Not used	
		RS1/16S332J	Not used	
		RS1/16S122J	Not used	
		RS1/16S822J	Not used	
	R9757, R9758 R9759, R9760 CN9804 KR CONNECTOR JA9156 OPTICAL LINK OUT	RS1/16S474J	Not used	
		RS1/16S101J	Not used	
		S5B-PH-K-S	Not used	
		GP1FA551TZ	Not used	

PCB PARTS LIST FOR VSX-35TX/KUXJI/CA UNLESS OTHERWISE NOTED

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
A FM/AM TUNER UNIT				CAPACITORS			
SEMICONDUCTORS				C206			
IC201		BA1451F		C212, C213, C226, C233-C235		CCSRCH100D50	
IC202		LC72131MD		C240		CCSRCH101J50	
Q201, Q204, Q205		2SC2412K		C231, C232		CCSRCH101J50	
Q202		DTA124ES		C223		CEAT100M50	
Q203		DTC124EK		C229		CEAT101M10	
D201		1SS133		C224		CEAT1R0M50	
D202		MTZJ5.1C		C227		CEAT220M25	
COILS AND FILTERS				C241		CEAT2R2M50	
L201	FM COIL	ATE7003		C243		CEAT330M16	
F202	FM CERAMIC FILTER	ATF-107		C228		CEAT3R3M50	
F201	FM CERAMIC FILTER	ATF-119		C237		CEAT470M10	
F203	AM CERAMIC FILTER	ATF7026		C211		CEJA1R0M50	
				C210		CEJA470M16	
				C204, C238, C602		CKSRYB102K50	

VSX-35TX, VSX-33TX

Mark	No.	Description	Part No.
		C101, C102, C208, C220, C239	CKSRYB103K50
		C242, C801	CKSRYB103K50
		C216, C217, C225	CKSRYB153K50
		C201, C205, C209, C214, C230	CKSRYB223K50
		C236, C603	CKSRYB223K50
		C221	CKSRYB224K10
		C202, C222	CKSRYB473K16
		C215	CKSRYB681K50

RESISTORS

R211	RD1/4PU221J
R221	RD1/4PU222J
R233	RD1/4PU391J
R243	RS1/10S0R0J
R103	RS1/10S331J
R104	RS1/10S391J
Other Resistors	RS1/16S□□□J

OTHERS

CN201	13P FFC CONNECTOR	52044-1345
BN201	4P ANTENNA TERMINAL	AKA7003
	SHIELD CASE T	ANK7072
	SHIELD CASE B	ANK7073
X201	CRYSTAL RESONATOR	ASS1093
	(7.2MHz)	

B EX I/O ASSY (For VSX-35TX)**SEMICONDUCTORS**

IC1101-IC1104	UPC4570G2
Q1151-Q1158	HN1C03F

CAPACITORS

C1114, C1125-C1132	CEAT100M50
C1109-C1113, C1115, C1116	CEAT4R7M50
C1133-C1142, C1159, C1160	CKSQYB103K50

RESISTORS

All Resistors	RS1/10S□□□J
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OTHERS

CN1112, CN1162	2P PIN JACK	AKB7008
JA1113, JA1163	2P PIN JACK	AKB7046
JA1111, JA1161	4P PIN JACK	AKB7048
CN1102	5P SOCKET	AKP7066
CN1101, CN1151	9P SOCKET	AKP7068

B 5.1CH I/O ASSY (For VSX-33TX)**SEMICONDUCTORS**

IC1101-IC1103	NJM4558MD
Q1151-Q1158	HN1C03F

CAPACITORS

C1114, C1125-C1130	CEAT100M50
C1109-C1113	CEAT4R7M50
C1133-C1138, C1141, C1142, C1159	CKSQYB103K50
C1160	CKSQYB103K50

RESISTORS

All Resistors	RS1/10S□□□J
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Mark	No.	Description	Part No.
OTHERS			
	CN1112, CN1162	2P PIN JACK	AKB7008
	JA1111, JA1161	4P PIN JACK	AKB7048
	CN1102	5P SOCKET	AKP7066
	CN1101, CN1151	9P SOCKET	AKP7068

C INPUT ASSY**SEMICONDUCTORS**

Q1001, Q1002	2SC2878
D1051	1SS133

CAPACITORS

C1019, C1021, C1051	CGCYX103M16
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RESISTORS

All Resistors	RD1/4PU□□□J
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OTHERS

JA1004	2P PIN JACK	AKB7046
JA1001-JA1003	4P PIN JACK	AKB7048
JA1051	MULTI ROOM JACK	AKN7014
CN1001	14P SOCKET	KP200TA14L
CN1002	6P SOCKET	KP200TA6L

D MAIN CONTROL ASSY**SEMICONDUCTORS**

IC101	M5220FP
IC104	NJM4558MD
IC901	PD5587A
IC107, IC109	TC9163AF
IC103	TC9164AF

IC102	TC9274F-001
IC108	TC9482F
IC106, IC110-IC112	UPC4570G2
Q291	2SC1740S
Q251, Q252	2SC2412K

Q902, Q905	DTA124EK
Q901	DTC143EK
D254, D255, D901-D910	1SS355
D301, D302	RB501V-40
D292	UDZ11B
D256	UDZS5.1B

COILS

L901	LCTA2R2J3225
L991-L993 NOISE FILTER	RTF1167

CAPACITORS

C902 (0.22F/5.5V)	ACH7132
C947-C949, C993	CCSQCH101J50
C115, C116	CCSQCH181J50
C159, C160	CCSQCH560J50
C191-C193, C941-C946, C952	CCSRCH101J50

C963, C964	CCSRCH101J50
C171, C172, C183	CCSRCH560J50
C113, C114, C131, C132	CEAT100M50
C143, C144, C155, C156	CEAT100M50
C163, C164, C167, C168	CEAT100M50

VSX-35TX, VSX-33TX

Mark	No.	Description	Part No.
	C175,C176,C179,C180	CEAT100M50	
	C187,C188,C259-C261	CEAT100M50	
	C135,C136	CEAT1R0M50	
	C147,C148	CEAT220M50	
	C903	CEAT221M10	
	C125,C126,C905	CEAT2R2M50	
	C921	CEAT331M10	
	C117,C118	CEAT470M25	
	C965	CEAT471M10	
	C291	CEJA101M16	
	C127,C128	CEJQ101M25	
	C992	CKSQYB102K50	
	C129,C130,C141,C142	CKSQYB103K50	
	C161,C162,C165,C166	CKSQYB103K50	
	C173,C174,C177,C178	CKSQYB103K50	
	C189,C190,C901,C904,C920	CKSQYB103K50	
	C299	CKSQYB104K25	
	C991	CKSQYB221K50	
	C298	CKSQYB223K50	
	C292	CKSQYF225Z16	
	C293	CKSRYB102K50	
	C133,C134,C149,C150	CKSRYB103K50	
	C195,C196,C257,C258,C294	CKSRYB103K50	
	C911,C966,C967	CKSRYB103K50	
	C184	CKSRYB333K16	
	C910,C912	CKSRYB473K16	
	C297,C906	CKSRYF105Z10	
	C123,C124	COMA242J50	
	C121,C122	COMA822J50	
RESISTORS			
	R292	RS1/16S0R0J	
	R135,R136,R907,R918,R934	RS1/16S102J	
	R941-R949,R955-R957	RS1/16S102J	
	R165,R166,R177,R259-R262	RS1/16S103J	
	R912,R922,R924	RS1/16S103J	
	R199-R202,R257,R258,R910	RS1/16S104J	
	R913,R914,R932,R935	RS1/16S104J	
	R992,R993	RS1/16S104J	
	R159,R160,R171,R172	RS1/16S152J	
	R183,R184	RS1/16S152J	
	R178	RS1/16S183J	
	R984	RS1/16S392J	
	R133,R134	RS1/16S471J	
	R167,R168,R179,R180	RS1/16S472J	
	R293,R905,R906,R933	RS1/16S473J	
	R131,R132	RS1/16S474J	
	R903	RS1/16S512J	
	R911	RS1/16S683J	
	R157,R158,R169,R170	RS1/16S751J	
	R182	RS1/16S821J	
Other Resistors		RS1/10S□□□□J	
OTHERS			
	X901	CERAMIC RESONATOR ASS7032 (15.7MHz)	
	CN906	4P FFC CONNECTOR	52045-0445
	CN102	5P FFC CONNECTOR	52045-0545
	CN907	10P FFC CONNECTOR	52045-1045

Mark	No.	Description	Part No.
	CN291	13P FFC CONNECTOR	52045-1345
	CN904,CN905,CN908		52045-2045
	CN105	20P FFC CONNECTOR	52045-2245
	CN903	32P FFC CONNECTOR	52045-3245
	J901	4P SHIELD ASSY	ADX7347
	152	6P PIN JACK	AKB7012
	CN153	4P PIN JACK	AKB7015
	CN103	9P PLUG	AKP7057
	CN107	11P PLUG	AKP7058
	CN101,CN106	15P PLUG	AKP7060
	CN901	15P SOCKET	KP200TA15L
	CN104	20P SOCKET	KP200TA20L
	CN108	4P SOCKET	KP200TA4L
	CN110	6P SOCKET	KP200TA6L
	CN902	7P SOCKET	KP200TA7L
	JA991,JA992	REMOTE CONTROL JACK	RKN1004
	101	PCB BINDER	VEF1040
	JA151	2P PIN JACK	VKB1060

E A-CONNECTION ASSY SEMICONDUCTORS

IC1551	M62429FP
IC1503	NJM4558MD
IC1501	TC9215AF
IC1502	TC9459F
D1551	UDZ55.1B

CAPACITORS

C1541-C1543,C1554,C1555	CCSQCH101J50
C1511,C1512	CCSQCH560J50
C1507,C1508,C1515,C1516	CEAT100M50
C1551-C1553	CEAT100M50
C1556,C1557	CEAT1R0M50
C1501-C1504,C1517,C1518	CKSQYB103K50

RESISTORS

R1551	RS3LMF391J
Other Resistors	RS1/10S□□□□J

OTHERS

CN1505	5P PLUG	AKP7055
CN1501,CN1503	9P PLUG	AKP7057
CN1552	9P SOCKET	AKP7068
CN1502	11P SOCKET	AKP7069
CN1504,CN1551	15P SOCKET	AKP7071
CN1553	14P PLUG	KM200TA14
CN1554	6P PLUG	KM200TA6
1501	PCB BINDER	VEF1040

F COMPOSITE ASSY SEMICONDUCTORS

IC731	NJM2279M
IC701	NJM2296M
IC751	TC4W53FU
Q701	2SA933S
D701,D731	DAN202K

VSX-35TX, VSX-33TX

Mark	No.	Description	Part No.
CAPACITORS			
	C715	CCSQCH150J50	
	C705-C707,C731	CCSQCH181J50	
	C737	CCSQCH470J50	
	C701-C704,C710-C712	CEAT101M10	
	C734,C735,C781,C782	CEAT101M10	
	C713	CEAT101M16	
	C708,C709,C714,C732,C733	CKSQYB473K50	
	C736,C785,C786,C793	CKSQYB473K50	
RESISTORS			
	R715	RD1/2VM201J	
Other Resistors		RS1/10S□□□□J	
OTHERS			
	703	2P PIN JACK	AKB7017
	JA702,JA704	3P PIN JACK	AKB7056
	CN701	12P SOCKET	KP200TA12L

G S VIDEO ASSY SEMICONDUCTORS

IC831	BU4051BCF
IC852	BU4053BCF
IC801,IC802	NJM2296M
Q852,Q853	2SA933S
Q833,Q834	IMH11
Q831	IMZ1A
D801,D802	1SS355

CAPACITORS

C857	CCSQCH100D50
C858	CCSQCH150J50
C854	CCSQCH151J50
C815-C818,C861,C862	CCSQCH181J50
C809	CCSQCH330J50
C801,C803,C805,C807	CEAT101M10
C819-C822,C863,C881,C882	CEAT101M10
C866,C868	CEAT101M16
C831-C836,C855,C856	CKSQYB103K50
C893,C894	CKSQYB103K50
C810-C814,C859,C864,C865	CKSQYB104K25
C802,C804,C806,C808	CKSQYB473K50
C823-C826,C867,C869	CKSQYB473K50

RESISTORS

R864	RD1/2VM201J
R859	RD1/4VM471J
Other Resistors	RS1/10S□□□□J

OTHERS

CN802,CN803	4P MINI DIN SOCKET	AKP7020
CN801	4P MINI DIN SOCKET	AKP7043
CN804	11P SOCKET	KP200TA11L

H V-CONNECTION ASSY SEMICONDUCTOR

Q801	KRC103M
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Mark	No.	Description	Part No.
CAPACITOR			
	C801	CKSQYB103K50	
RESISTORS			
All Resistors		RS1/10S□□□□J	
OTHERS			
	CN801	20P FFC CONNECTOR	52044-2045
	CN604	10P PLUG	KM200TA10
	CN603	11P PLUG	KM200TA11
	CN602	12P PLUG	KM200TA12

I V-AMP ASSY SEMICONDUCTORS

IC2201	BU4052BCF
Q2003,Q2023,Q2043,Q2103,Q2123	2SA933S
Q2004,Q2007,Q2024,Q2027,Q2044	2SA970
Q2047,Q2104,Q2107,Q2124,Q2127	2SA970
Q2252,Q2253	2SC1740S
Q2005,Q2006,Q2025,Q2026	2SC2240
Q2045,Q2046,Q2105,Q2106	2SC2240
Q2125,Q2126,Q2251	2SC2240
Q2008,Q2028,Q2048,Q2108,Q2128	2SC2878
Q2001,Q2021,Q2041,Q2101,Q2121	FMS3
Q2002,Q2022,Q2042,Q2102,Q2122	FMW4
D2001,D2002,D2004,D2005	1SS355
D2021,D2022,D2024,D2025	1SS355
D2041,D2042,D2044,D2045	1SS355
D2101,D2102,D2104,D2105	1SS355
D2121,D2122,D2124,D2125	1SS355
D2201-D2208	1SS355
D2003,D2023,D2043,D2103,D2123	UDZ56.8B
D2006,D2026,D2046,D2106,D2126	UDZ58.2B

CAPACITORS

C2011,C2012,C2031,C2032	CCCSL181K2H
C2051,C2052,C2111,C2112	CCCSL181K2H
C2131,C2132	CCCSL181K2H
C2009,C2029,C2049,C2109,C2129	CCCSL5R0C2H
C2004,C2024,C2044,C2104,C2124	CCSQCH101J50
C2002,C2022,C2042,C2102,C2122	CCSQCH221J50
C2006,C2007,C2026,C2027	CCSQCH560J50
C2046,C2047,C2106,C2107	CCSQCH560J50
C2126,C2127	CCSQCH560J50
C2001,C2021,C2041,C2101,C2121	CEAT100M50
C2005,C2008,C2025,C2028,C2045	CEAT101M16
C2048,C2105,C2108,C2125,C2128	CEAT101M16
C2161,C2162	CEAT221M50
C2252	CEAT331M10
C2010,C2030,C2050,C2110,C2130	CEAT470M16
C2013,C2033,C2053,C2113,C2133	CEAT470M50
C2151-C2155	CKSQYB222K50
C2003,C2023,C2043,C2103,C2123	CKSQYB332K50
C2251	CKSQYF223Z50
C2201,C2202	CKSQYF225Z16

VSX-35TX, VSX-33TX

Mark	No.	Description	Part No.
RESISTORS			
△	R2018,R2038,R2058,R2118,R2138	RD1/4MUF473J	
△	R2012,R2032,R2132	RS1/10S101J	
△	R2013,R2014,R2033,R2034	RS1/10S121J	
△	R2053,R2054,R2113,R2114	RS1/10S121J	
△	R2133,R2134	RS1/10S121J	
	Other Resistors	RS1/10S□□□□	

OTHERS			
CN2101	13P FFC CONNECTOR	52045-1345	
CN2001	22P FFC CONNECTOR	52045-2245	
CN2002	18P SOCKET	KP230TA18L	

J FRONT AMP ASSY

SEMICONDUCTORS			
△	Q2503,Q2523,Q2543	2SA970	
△	Q2502,Q2522,Q2542	2SC4137	
△	Q2501,Q2521,Q2541	IRF540A	
△	Q2504,Q2524,Q2544	IRF9540A	
	D2501-D2505,D2521-D2525	1SS133	
	D2541-D2545	1SS133	

CAPACITORS			
C2501,C2521,C2541		CEANPR22M50	
C2551,C2552		CEAT330M2A	

RESISTORS			
△	R2512,R2532,R2552 (0.05Ω/5W×2)	ACN7097	
△	R2506,R2510,R2526,R2530,R2546	RD1/4PUF391J	
△	R2550	RD1/4PUF391J	
△	R2501,R2511,R2521,R2531,R2541	RD1/4PUF680J	
△	R2551	RD1/4PUF680J	
	VR2501,VR2521,VR2541 (470Ω)	ACP1067	
	Other Resistors	RD1/4PU□□□□	

OTHERS			
CN2501	18P PLUG	KM200TA18	

K REAR AMP ASSY

SEMICONDUCTORS			
△	Q2603,Q2623	2SA970	
△	Q2602,Q2622	2SC4137	
△	Q2601,Q2621	IRF540A	
△	Q2604,Q2624	IRF9540A	
	D2601-D2605,D2621-D2625	1SS133	

CAPACITORS			
C2601,C2621		CEANPR22M50	
C2651,C2652		CEAT220M2A	

RESISTORS			
△	R2612,R2632 (0.05Ω/5W×2)	ACN7097	
△	R2606,R2610,R2626,R2630	RD1/4PUF391J	
△	R2601,R2611,R2621,R2631	RD1/4PUF680J	
	VR2601,VR2621 (470Ω)	ACP1135	
	Other Resistors	RD1/4PU□□□□	

Mark	No.	Description	Part No.
OTHERS			
CN2601	13P FFC CONNECTOR	52045-1345	
2602	PCB BINDER	VEF1040	

L SP/PS ASSY

SEMICONDUCTORS			
△	Q3302	2SA1837	
△	Q3301	2SC4793	
	Q3304	KRA101M	
	Q3005,Q3156-Q3159	KRA103M	
	Q3151-Q3155,Q3303	KRC101M	

△	Q3305	KRC103M	
	D3051,D3053,D3055,D3057,D3060	1SS133	
	D3001,D3002	D5SBA20	
	D3309,D3310	MTZJ13C	
	D3313	MTZJ16B	

△	D3305-D3308	MTZJ18C	
△	D3301-D3304,D3311,D3312	S5688G	

COILS			
L3101-L3105	AF CHOKE COIL	ATH1053	
L3111,L3112	BEAD FILTER	ATX1012	

RELAYS			
RY3101-RY3105		ASR7026	

CAPACITORS			
C3001,C3002 (22000μF/56V)		ACH7147	
C3305,C3306		CEAT101M50	
C3307,C3308		CEAT221M50	
C3118		CEAT470M50	
C3303,C3304		CEAT471M63	
C3101-C3105		CFTYA104J50	
C3111-C3117		CQHA102J2A	

RESISTORS			
R3151-R3155		RD1/2PM471J	
△	R3305,R3306	RD1/4PMF332J	
△	R3001,R3002	RD1/4PMF473J	
△	R3101-R3105	RD1/4PMF4R7J	
△	R3106-R3110	RS1LMF4R7J	
△	R3131,R3132	RS2LMF331J	
	Other Resistors	RD1/4PU□□□□	

OTHERS			
3001	6P CABLE HOLDER	51048-0600	
3004	8P CABLE HOLDER	51048-0800	
CN3003	14P FFC CONNECTOR	52045-1445	
CN3101	8P SPEAKER TERMINAL	AKE7058	
CN3102	6P SPEAKER TERMINAL	AKE7060	
3013,3014,3303,3304	SCREW	BBZ30P080FZK	
CN3005,CN3010	4P PLUG	KM200TA4	

Mark	No.	Description	Part No.
M TRANS 2-1 ASSY			
SEMICONDUCTORS			
△	IC4501,IC4502 (5A)	AEK7019	

CAPACITOR			
C4502		CQMA333K2E	

RESISTOR			
R4502		RFA1/4PS220J	

OTHERS			
4001	6P CABLE HOLDER	51048-0600	
H4501-H4504	FUSE HOLDER	AKR7001	

N REGULATOR ASSY

SEMICONDUCTORS			
△	IC5009,IC5010 (200mA)	AEK7023	
△	IC5004,IC5008	NJM78M05FA	
△	IC5003	NJM78M12FA	
△	IC5001	NJM78M15FA	
△	IC5005,IC5007	NJM78M56FA	

△	IC5006	NJM79M05FA	
△	IC5002	NJM79M15FA	
	D5010	1SS355	
△	D5005,D5009	D3SBA20(B)	
△	D5012	MTZJ6.2B	
△	D5001-D5004	S5566G(TPB2)	
	D5011	UDZ5.1B	

CAPACITORS			
C5015,C5017		CEAT101M10	
C5013,C5025		CEAT101M25	
C5021		CEAT221M10	
C5001,C5003,C5006		CEAT222M25	
C5002,C5004		CEAT222M35	
C5019		CEAT331M10	
C5005		CEAT332M25	
C5024		CEAT470M50	
C5023		CEAT471M10	
C5009,C5011		CEAT471M25	
C5007		CEAT472M18	
C5034		CKSQYB102K50	
C5008,C5010,C5012,C5014,C5016		CKSQYB103K50	
C5018,C5020,C5022,C5031,C5035		CKSQYB103K50	
C5030		CQMA104J50	

RESISTORS			
R5005		RD1/2VM1R0J	
Other Resistors		RS1/10S□□□□	

OTHERS			
5010	4P CABLE HOLDER	51048-0400	
CN5002	14P FFC CONNECTOR	52045-1445	
CN5001	8P FFC CONNECTOR	52147-0810	
CN5005	15P PLUG	KM200TA15	
CN5004,CN5009	20P PLUG	KM200TA20	
CN5007,CN5010	4P PLUG	KM200TA4	
CN5003	6P PLUG	KM200TA6	
CN5008	7P PLUG	KM200TA7	
CN5006	9P PLUG	KM200TA9	
KN5002	EARTH METAL FITTING	VNF1084	

VSX-35TX, VSX-33TX

Mark	No.	Description	Part No.
O TRANS 2-2 ASSY			
SEMICONDUCTOR			
△	IC5501 (5A)	AEK7019	

CAPACITORS			
△	C5501,C5502	CQMA104J50	

RESISTOR			
△	R5501	RD1/4MUF100J	

OTHERS			
5501	4P CABLE HOLDER	51048-0400	

Q PRIMARY ASSY

SEMICONDUCTORS			
△	IC6001	NJM78M56FA	
	Q6001	KRC101M	
	D6005-D6007	1SS355	
△	D6001	S1WB(A)60SD	
	D6008	UDZ5.1B	

COILS			
△	L6001	LINE FILTER	ATF7018
	L6003,L6004	BEAD FILTER	ATX1012

TRANSFORMER			
△	T6001	ATT7043	

RELAY			
△	RY6001	ASR7025	

CAPACITORS			
△	C6002 (0.01μF/AC275V)	ACE7013	
△	C6003 (10000pF/AC250V)	ACG7033	
	C6005	CEAT102M25	
	C6006	CEAT221M25	
	C6015	CQMA104J50	

RESISTORS			
△	R6001 (2.2MΩ, 1/2W)	RCN1080	
	R6003	RD1/2VM101J	
	Other Resistors	RS1/10S□□□□	

OTHERS			
6004	AC SOCKET	AKP7136	
H6001,H6002	FUSE CLIP	AKR7001	
CN6003,CN6004	4P SOCKET	KP200TA4L	
CN6002	AC CORD SOCKET	RKP1751	
6003	SCREW TERMINAL	VNE1948	

R COMPONENT ASSY

SEMICONDUCTORS			
IC551		LC74782M-9011	
IC501		TC74HC4053AF	
IC502,IC503		TK15420M	
Q551		DTC124EK	
D551,D552		1SS355	

VSX-35TX, VSX-33TX

Mark	No.	Description	Part No.
COILS			
	L552,L553		LCTA100J3225
	L551		LCTA330J3225
CAPACITORS			
	C551,C559		CCSQCH101J50
	C555		CCSQCH150J50
	C556		CCSQCH180J50
	C557,C558		CCSQCH240J50
	C513-C515		CCSQCH470J50
	C501-C504,C507,C508,C552		CEAT101M10
	C562,C563		CEAT101M10
	C505,C506,C509-C512,C518		CKSQYB103K50
	C553,C554,C560,C561		CKSQYB473K50
RESISTORS			
	All Resistors		RS1/10S□□□□
OTHERS			
	X551	CRYSTAL RESONATOR (14.31818MHz)	ASS1056
	JA501-JA503	3P PIN JACK	AKB7124
	CN501	10P SOCKET	KP200TA10L
S DISPLAY ASSY			
SEMICONDUCTORS			
	IC7001		PD5588A
	IC7051		TC7W53FU
	Q7051		2SA1037K
	Q7001,Q7052,Q7054		DTC124EK
	Q7053		FMA1A
	D7051-D7057		1SS355
	D7009,D7010		DAN202K
COIL			
	L7001		LFA2R2J
SWITCHES			
	S7001-S7003,S7007-S7023		ASG7013
	S7025-S7027,S7031-S7035		ASG7013
CAPACITORS			
	C7010 (0.22μF/5.5V)		ACH7132
	C7007,C7092,C7093		CCSQCH101J50
	C7701,C7702		CEAT100M50
	C7008,C7013,C7052		CEJA101M6R3
	C7001-C7006,C7091		CKSQYB102K50
	C7051		CKSQYB103K50
	C7053		CKSQYB153K50
	C7009		CKSQYB473K50
RESISTORS			
	R7044		RA15T104J
	Other Resistors		RS1/10S□□□□
OTHERS			
	X7001	CERAMIC RESONATOR (7.2MHz)	ASS7018
	7006	3P CABLE HOLDER	51048-0300
	7003	4P CABLE HOLDER	51048-0400
	CN7007	4P FFC CONNECTOR	52045-0445

Mark	No.	Description	Part No.
	CN7005	5P FFC CONNECTOR	52045-0545
	CN7002	7P FFC CONNECTOR	52045-0745
	CN7004	8P FFC CONNECTOR	52045-0845
	CN7001	32P FFC CONNECTOR	52045-3245
	V7001	FL TUBE	AAV7076
	7010	FL HOLDER	VNF1085
T VOLUME-CONT ASSY			
SWITCHES			
	S7103,S7104		ASG7013
	S7101		ASX7004
	S7102		ASX7036
CAPACITORS			
	C7101-C7104		CKSQYB103K50
RESISTORS			
	All Resistors		RS1/10S□□□□
OTHERS			
	CN7101	7P FFC CONNECTOR	52045-0745
	KN7101	EARTH METAL FITTING	VNF1084
U HEADPHONE ASSY			
CAPACITORS			
	C7304		CKSQYB103K50
	C7301,C7302		CKSQYB392K50
RESISTORS			
	All Resistors		RS1/10S□□□□
OTHERS			
	7301	4P CABLE HOLDER	51048-0400
	JA7301	HEADPHONE JACK	RKB1014
	KN7301	EARTH METAL FITTING	VNF1084
V FRONT AV ASSY			
SEMICONDUCTORS			
	Q7201,Q7202		2SC2412K
CAPACITORS			
	C7203,C7204		CCSQCH101J50
	C7201,C7202,C7215,C7216		CCSQCH271J50
	C7208,C7209		CEJA101M10
	C7207		CEJA1R0M50
	C7220		CKSQYB102K50
	C7210,C7217-C7219		CKSQYB103K50
	C7211		CKSQYB104K25
	C7213,C7214		CKSQYB105K10
RESISTORS			
	All Resistors		RS1/10S□□□□
OTHERS			
	CN7201	8P FFC CONNECTOR	52044-0845
	JA7202	FRONT PIN JACK 4P	AKX7014

VSX-35TX, VSX-33TX

Mark	No.	Description	Part No.
W STAND BY ASSY			
SEMICONDUCTOR			
	D7501		SLR-343VR(MNP)
SWITCH			
	S7501		ASG7013
OTHERS			
	7501	3P CABLE HOLDER	51048-0300
X FRONT DIGIN ASSY			
CAPACITOR			
	C7601		CKSQYF104Z50
RESISTORS			
	All Resistors		RS1/10S□□□□
OTHERS			
	JA7601	OPTICAL LINK IN	GP1FA551RZ
	CN7601	KR CONNECTOR	S5B-PH-K-S
	KN7601	EARTH METAL FITTING	VNF1084
Y DSP ASSY			
SEMICONDUCTORS			
	IC9101		AK4112AVF
	IC9102		AK4527VQ
	IC9551		AK7706VT
	IC9103		CS4391
	IC9501		CS493292
	IC9201,IC9202		NJM2100M
	IC9504		PDN030A
	IC9811		PQ20WZ51
	IC9812		PQ7VZ5
	IC9552		TC551001CFT-70L
	IC9151		TC74ACT151F
	IC9152		TC74HCU04AF
	IC9505		TC74LVX244FT
	IC9502,IC9503		TC74VHC574F
	IC9506		TC74VHC244AFT
	IC9507		TC7WU04FU
	IC9601		TC9164AF
	IC9602-IC9604,IC9701-IC9707		UPC4570G2
	Q9201,Q9202,Q9601-Q9606		2SC3326
	Q9611,Q9612		2SC3326
	Q9102,Q9104,Q9203,Q9607		DTA124EK
	Q9609,Q9610		DTA124EK
	Q9101,Q9103,Q9204,Q9608		DTC124EK
	D9601,D9602		1SS181
	C9134,C9153,C9155,C9157,C9160		CKSQYB103K50
	C9517,C9563,C9816		CKSQYB103K50
	C9607,C9608,C9619,C9620		CKSQYF104Z25
	C9631,C9632,C9705,C9706		CKSQYF104Z25
	C9709-C9712,C9723-C9726		CKSQYF104Z25
	C9737,C9738,C9759,C9760,C9810		CKSQYF104Z25
	C9163-C9167		CKSQYF104Z50
	C9745,C9746,C9781,C9782		CKSRYB102K50
	C9103,C9105,C9118,C9121,C9124		CKSRYB103K50
	C9133,C9158,C9502,C9504,C9506		CKSRYB103K50
	C9508,C9512,C9514,C9519,C9521		CKSRYB103K50
	C9524,C9527,C9531,C9552,C9554		CKSRYB103K50
	C9556,C9558,C9560,C9572		CKSRYB103K50
	C9636,C9637		CKSRYB103K50
	C9109,C9114,C9116,C9126,C9626		CKSRYB104K16

Mark	No.	Description	Part No.
COILS AND FILTERS			
	L9501,L9551,L9801,L9802,L9807		ATL7002
	CHIP FERRITE BEAD		
	L9809,L9811,L9812		ATL7002
	CHIP FERRITE BEAD		
	F9151-F9153	CHIP BEAD	DTF1064
	L9101-L9107,L9502,L9503		QTL1013
	CHIP SOLID INDUCTOR		
	L9506,L9507,L9552		QTL1013
	CHIP SOLID INDUCTOR		
CAPACITORS			
	C9135		CCSQCH101J50
	C9809		CCSQCH221J50
	C9159,C9161		CCSQCH470J50
	C9154,C9156,C9518,C9564		CCSQCH471J50
	C9510,C9511		CCSRCH100D50
	C9609,C9610,C9721,C9722,C9735		CCSRCH101J50
	C9107		CCSRCH150J50
	C9106		CCSRCH180J50
	C9621,C9622,C9749-C9752		CCSRCH221J50
	C9509,C9629,C9757,C9758		CCSRCH271J50
	C9101,C9104,C9112,C9115,C9119		CCSRCH471J50
	C9122,C9503,C9505,C9507,C9513		CCSRCH471J50
	C9515,C9520,C9522,C9525,C9528		CCSRCH471J50
	C9553,C9555,C9557,C9559,C9561		CCSRCH471J50
	C9617,C9618,C9639		CCSRCH471J50
	C9201,C9202		CCSRCH560J50
	C9707,C9708		CCSRCH820J50
	C9611,C9612,C9736		CCSRCH821J50
	C9113		CEAT221M10
	C9523,C9526,C9643,C9644,C9770		CEJA100M25
	C9501,C9516,C9551,C9740		CEJA101M10
	C9801,C9802,C9812,C9814		CEJA101M10
	C9123,C9125		CEJA1R0M50
	C9127,C9529		CEJA2R2M50
	C9713,C9714,C9727,C9728,C9739		CEJA330M10
	C9753,C9754,C9765-C9769		CEJA330M10
	C9102,C9108,C9117,C9120		CEJA470M16
	C9151,C9152,C9162,C9562		CEJA470M16
	C9803,C9805		CEJA470M25
	C9203,C9204,C9206,C9207		CEJA47M50
	C9603,C9604,C9615,C9616		CEJA47M50
	C9627,C9628,C9761,C9762,C9811		CEJA47M50
	C9813		CEJA47M50
	C9110		CEJA47M50
	C9815		CKSQYB102K50
	C9134,C9153,C9155,C9157,C9160		CKSQYB103K50
	C9517,C9563,C9816		CKSQYB103K50
	C9607,C9608,C9619,C9620		CKSQYF104Z25
	C9631,C9632,C9705,C9706		CKSQYF104Z25
	C9709-C9712,C9723-C9726		CKSQYF104Z25
	C9737,C9738,C9759,C9760,C9810		CKSQYF104Z25
	C9163-C9167		CKSQYF104Z50
	C9745,C9746,C9781,C9782		CKSRYB102K50
	C9103,C9105,C9118,C9121,C9124		CKSRYB103K50
	C9133,C9158,C9502,C9504,C9506		CKSRYB103K50
	C9508,C9512,C9514,C9519,C9521		CKSRYB103K50
	C9524,C9527,C9531,C9552,C9554		CKSRYB103K50
	C9556,C9558,C9560,C9572		CKSRYB103K50
	C9636,C9637		CKSRYB103K50
	C9109,C9114,C9116,C9126,C9626		CKSRYB104K16

Mark	No.	Description	Part No.
	C9605,C9606,C9633,C9755,C9756		CKSRYB122K50
	C9211,C9212		CKSRYB152K50
	C9703,C9704,C9715,C9716,C9729		CKSRYB182K50
	C9601,C9602,C9613,C9614,C9625		CKSRYB222K50
	C9763,C9764		CKSRYB222K50
	C9701,C9702		CKSRYB272K50
	C9732		CKSRYB333K16
	C9645		CKSRYB472K50
	C9111		CKSRYB682K50
	C9717,C9718,C9731		CKSRYB821K50
	C9205,C9208-C9210		CKSRYF104Z25
	C9730		CKSRYF104Z50

RESISTORS

R9153,R9172,R9173,R9175,R9812	RS1/10S0R0J
R9815	RS1/10S0R0J
R9159,R9162,R9169-R9171	RS1/10S101J
R9165-R9167	RS1/10S102J
R9561,R9563-R9570,R9584	RS1/10S103J
R9151,R9152,R9154-R9156	RS1/10S104J
R9814,R9816	RS1/10S122J
R9123	RS1/10S182J
R9101	RS1/10S183J
R9813	RS1/10S202J
R9161,R9168	RS1/10S222J
R9588,R9589	RS1/10S331J
R9552,R9553,R9562	RS1/10S472J
R9160,R9164	RS1/10S473J
R9811	RS1/10S511J
R9121	RS1/10S562J
R9120,R9122	RS1/10S681J
R9158,R9163	RS1/10S750J
Other Resistors	RS1/16S□□□J

OTHERS

X9101	CRYSTAL RESONATOR ASS7025 (24MHz)	
X9501	CHIP CRYSTAL (27MHz)	VSS1086
CN9805,CN9806	20P FFC CONNECTOR	52044-2045
JA9151	2P PIN JACK	AKB7131
JA9153,JA9154	OPTICAL LINK IN	GP1FA551RZ
JA9155,JA9156	OPTICAL LINK OUT	GP1FA551TZ
CN9801	20P SOCKET	KP200TA20L
CN9803	4P SOCKET	KP200TA4L
CN9802	9P SOCKET	KP200TA9L
CN9804	KR CONNECTOR	S5B-PH-K-S

6. ADJUSTMENT

■ IDLE CURRENT ADJUSTMENT

• **CAUTION** : Do not turn around the adjustment Variable resistors (VRs) fast !
If you go over the adjustment specification value too much. MOS-FET may be broken.

Steps

1. Decrease the level of the Adjustment Variable resistors (VR) for the channel to be adjusted. (Turn counterclockwise.)
2. Set the power switch to ON.
3. First adjustment : Adjust VRs in following the step in table 1 and table 2.
4. Second adjustment : Adjust VRs in following the step in table 1 and table 2 that depends on aging time.

Table 1

Step No.	Adjustment Channel	Adjustment Point	Measurement Point
①	SL ch	VR2601	Between W441 and W443
②	SR ch	VR2621	Between W432 and W433
③	FL ch	VR2501	Between two terminal of 2511
④	C ch	VR2541	Between two terminal of 2551
⑤	FR ch	VR2521	Between two terminal of 2531

Table 2

	Adjustment Time	Adjustment Value
First adjustment	00 : 00 - 01 : 30	16.6mV ± 10% (16.6mV ± 1.6mV)
	07 : 00 - 08 : 59	8.2mV ± 10% (8.2mV ± 0.8mV)
Second adjustment	09 : 00 - 11 : 59	7.5mV ± 0.5mV
	12 : 00 - 14 : 59	7.0mV ± 0.5mV
	15 : 00 -	7.0mV ± 0.5mV

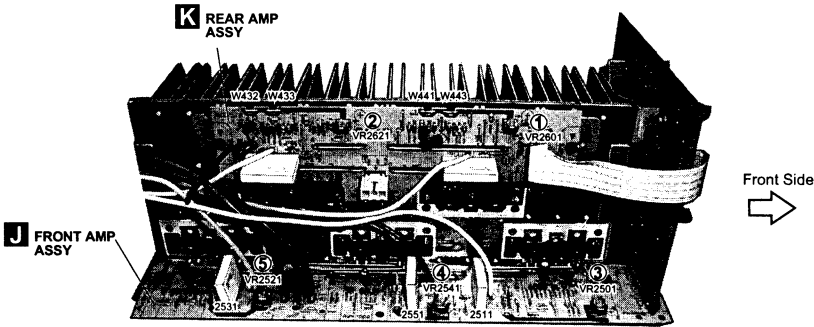
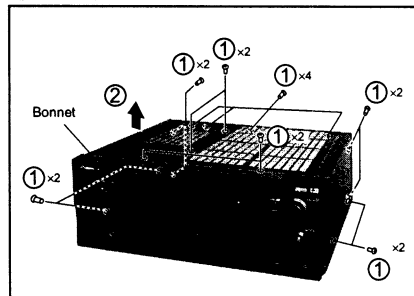


Fig.1 Adjustment Points

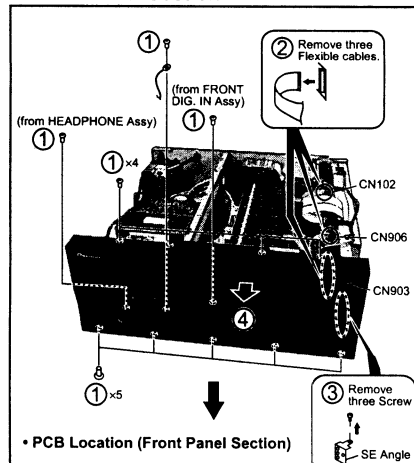
7. GENERAL INFORMATION

7.1 DISASSEMBLY

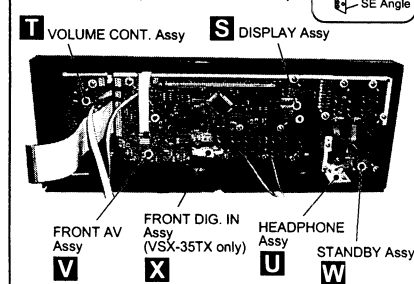
■ Bonnet



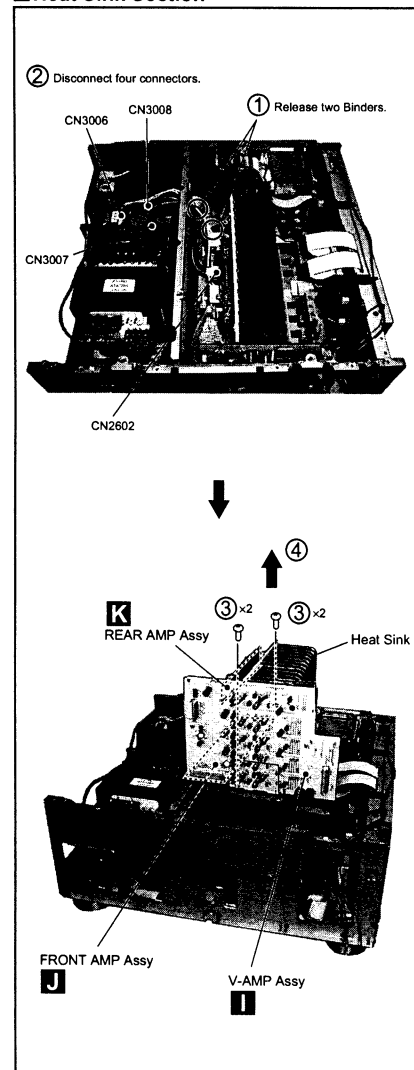
■ Front Panel Section



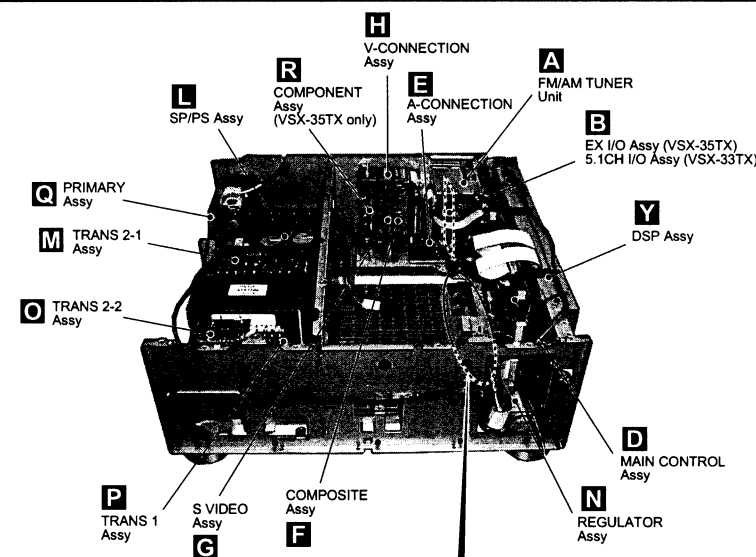
- **PCB Location (Front Panel Section)**



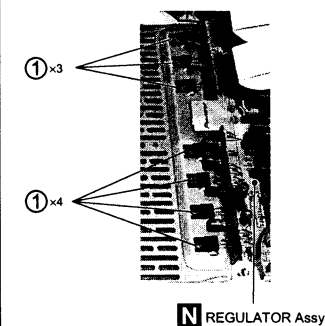
■ Heat Sink Section



■ PCB Location



Replace the Regulator IC.



7.2 PARTS

7.2.1 IC

* The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

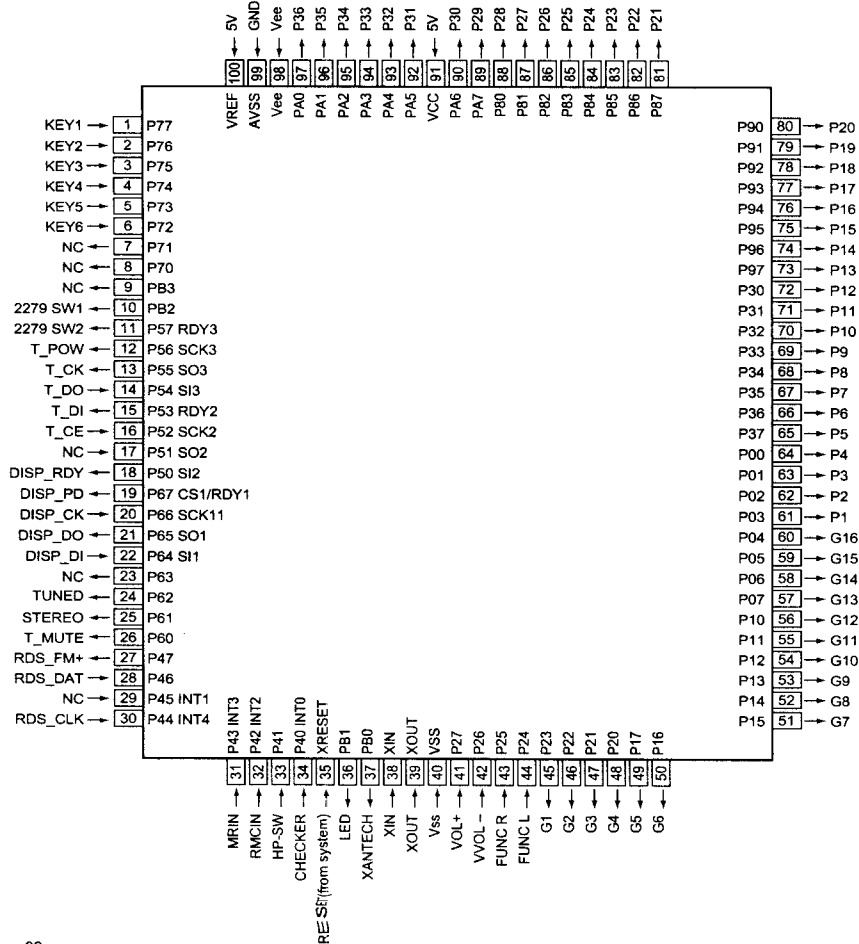
• List of IC

PD5588A, PD5587A

■ PD5588A (DISPLAY ASSY : IC7001)

• Display Control IC

• Pin Assignment (Top View)



• Pin Function

No.	Pin Name	I/O	Function	No.	Pin Name	I/O	Function
1	KEY 1	I	Key scan input 1	51	G7	O	Grid output 7
2	KEY 2	I	Key scan input 2	52	G8	O	Grid output 8
3	KEY 3	I	Key scan input 3	53	G9	O	Grid output 9
4	KEY 4	I	Key scan input 4	54	G10	O	Grid output 10
5	KEY 5	I	Key scan input 5	55	G11	O	Grid output 11
6	KEY 6	I	Key scan input 6	56	G12	O	Grid output 12
7	NC	O	Open	57	G13	O	Grid output 13
8	NC	O	Open	58	G14	O	Grid output 14
9	NC	O	Open	59	G15	O	Grid output 15
10	2279 SW1	O	Control for NJM2279	60	G16	O	Grid output 16
11	2279 SW2	O	Control for NJM2279	61	S1	O	Segment output 1
12	T-POW	O	Tuner power down	62	S2	O	Segment output 2
13	T-CK	O	Clock for tuner module	63	S3	O	Segment output 3
14	T-DO	I	Data from tuner module	64	S4	O	Segment output 4
15	T-DI	O	Data for tuner module	65	S5	O	Segment output 5
16	T-CE	O	Chip enable for tuner module	66	S6	O	Segment output 6
17	NC	I	Open	67	S7	O	Segment output 7
18	DISP RDY	O	Data request for IC901 MAIN U-COM	68	S8	O	Segment output 8
19	DISP PD	O	Display u-com power down	69	S9	O	Segment output 9
20	DISP CK	I	Clock for IC901 MAIN U-COM	70	S10	O	Segment output 10
21	DISP DO	O	Data for IC901 MAIN U-COM	71	S11	O	Segment output 11
22	DISP DI	I	Data from IC901 MAIN U-COM	72	S12	O	Segment output 12
23	NC	O	Open	73	S13	O	Segment output 13
24	TUNED	I	Tuned data from tuner module	74	S14	O	Segment output 14
25	STEREO	I	Stereo tuned data from tuner module	75	S15	O	Segment output 15
26	T-MUTE	O	Tuner mute ON/OFF	76	S16	O	Segment output 16
27	RDS FM+	-	VDD for IC7401 BU1923 (RDS model only)	77	S17	O	Segment output 17
28	RDS DAT	O	Data for IC7401 BU1923 (RDS model only)	78	S18	O	Segment output 18
29	NC	I	(pull-up)	79	S19	O	Segment output 19
30	RDS CLK	I	Clock for IC7401 BU1923 (RDS model only)	80	S20	O	Segment output 20
31	MR IN	I	Sub room remote control (MR&S, MR model only)	81	S21	O	Segment output 21
32	RMC IN	I	Remote control	82	S22	O	Segment output 22
33	HP-SW	I	Headphone connect detect	83	S23	O	Segment output 23
34	CHECKER	I	For unit check test mode detection	84	S24	O	Segment output 24
35	COM-RESET	I	Reset	85	S25	O	Segment output 25
36	LED	O	Standby LED	86	S26	O	Segment output 26
37	XANTECH	O	XANTECH ON/OFF	87	S27	O	Segment output 27
38	XIN	-	Connect a 7.2MHz oscillator	88	S28	O	Segment output 28
39	XOUT	-	Connect a 7.2MHz oscillator	89	S29	O	Segment output 29
40	VSS	-	GND	90	S30	O	Segment output 30
41	VOL+	I	Rotary encoder signal +	91	VDD	-	Power supply +5V
42	VOL-	I	Rotary encoder signal -	92	S31	O	Segment output 31
43	FUNC/R	I	Rotary encoder signal R	93	S32	O	Segment output 32
44	FUNC/L	I	Rotary encoder signal L	94	S33	O	Segment output 33
45	G1	O	Grid output 1	95	S34	O	Segment output 34
46	G2	O	Grid output 2	96	S35	O	Segment output 35
47	G3	O	Grid output 3	97	S36	O	Segment output 36
48	G4	O	Grid output 4	98	VEE	-	Power supply 5V
49	G5	O	Grid output 5	99	AVSS	-	GND
50	G6	O	Grid output 6	100	VREF	-	Reference voltage 5V

VSX-35TX, VSX-33TX

- **Pin Function**

No.	Pin Name	I/O	Function	No.	Pin Name	I/O	Function
1	OSD DT	O	Data for IC752 LC74782M-9011	41	ATT	O	Audio attenuator
2	OSD CK	O	Clock for IC752 LC74782M-9011	42	ASK IRST	O	for AK7706 Hard reset
3	OSD CS	O	Chip select for IC752 LC74782M-9011	43	CRS RST	O	Reset for CS49329
4	DISP DWN	O	Reset for IC9501 DSP U-COM	44	CRS CS	O	Chip select for CS49329
5	DISP DO	I	Data from IC7001 DISP U-COM	45	CRS REQ	I	Data for CS49329
6	DISP DI	O	Data for IC7001 DISP U-COM	46	DSP MUTE	O	Mute request from DSP U-COM
7	DISP CK	O	Clock for IC7001 DISP U-COM	47	CRS A16	O	Control for PDN030A
8	GND	–	GND	48	CRS A15	O	Control for PDN030A
9	GND	–	GND	49	CRS A17	O	Control for PDN030A
10	RY-HP	O	Headphone relay ON/OFF	50	9164DT	O	Data from TC9164
11	RY-C/S	O	SP C/S relay ON/OFF	51	FS96	I	96k Hz detect
12	XRESET	I	Reset	52	ABOT	O	Boot signal
13	XOUT	O		53	ADMD	O	Audio preout mute ON/OFF
14	GND	–	Connect a 4.19MHz oscillator	54	CODEC PD	O	CODEC Power down
15	XIN	I		55	AK DT	O	Data from CODEC
16	VDD	–	Power supply +5V	56	AK CK	O	Control for CODEC
17	GND	–	GND	57	AK CS	O	Chip select for CODEC
18	AMP OLDET	O	Amp Overload detect	58	DIR PD	O	DIR Power down
19	WAKEUP	I	AC pulse input	59	DIR SDTO	O	DIR data for output
20	AMP DCDET	O	Amp D.C. detect	60	DSEL C	O	Control for TC74ACT151F
21	MR MUTE	O	Audio mute ON/OFF for sub room (MR&S, MR model only)	61	DSEL B	O	Control for TC74ACT151F
22	MR-V DT	O	Data for IC110 M62429FP control (MR&S model only)	62	Vdd	–	Power supply +5V
23	MR-V CK	O	Clock for IC110 M62429FP control (MR&S model only)	63	DSEL A	O	Control for TC74ACT151F
24	V.2296SW2	O	Control for IC701, 801, 802 NJM2296M	64	GND	–	GND
25	V.2296SW5	O	Control for IC701, 801, 802 NJM2296M	65	DM STP	O	Data for Demodureter
26	V.2296SW3	O	Control for IC701, 801, 802 NJM2296M	66	DM RST	O	Reset for Demodureter
27	V.2296SW4	O	Control for IC701, 801, 802 NJM2296M	67	DM LCK	O	Clock for Demodureter
28	OSD RST	O	Reset for IC752 LC74782M-9011	68	9164 CS	O	Chip select for TC9164
29	V4053A	O	Control for TC74HC4053 (Nch Open Drain)	69	9164 CK	O	Clock for TC9164
30	V4053INH	O	Inhibit for TC74HC4053 (Nch Open Drain)	70	TC4959_ST	O	Strobe for TC4959
31	ASK DO	I	Data from AK7706	71	TC9215_C-12	O	Control for TC9215
32	ASK DI	O	Data for AK7706 Input signal	72	TC9215_C-34	O	Control for TC9215
33	ASK CK	O	Clock for AK7706	73	EVOL_DT	O	Data for Electr Volume
34	ASK DRDY	O	Data ready from AK7706	74	EVOL_CK	O	Clock for Electr Volume
35	CRS DO	I	Data from CS49329	75	DIR ERR	I	DIR error detect
36	CRS DI	O	Data for CS49329 Input signal	76	DISP RST	O	Reset for IC7001 DISP U-COM
37	CRS CK	O	Clock for CS49329	77	DISP RDY	I	Data request from IC7001 DISP U-COM
38	ASK RDY	I	Data request from AK7706	78	AUDIO ST1	O	Strobe for TC9274F, TC9164, TC9163
39	ASK REQ	O	Chip select for AK7706	79	AUDIO DT1	O	Data for TC9274F, TC9164, TC9163
40	ASK DRST	O	for AK7706 Soft reset	80	AUDIO CK1	O	Clock for TC9274F, TC9164, TC9163

PD5587A

[illegible]

● Pin Function

No.	Pin Name	I/O	Function	No.	Pin Name	I/O	Function
81	TC9482ST	O	Strobe for IC108 TC9482N control	91	TEMP IN	O	O/open (KU,J,SD), I/Fan temperature A/D input (other)
82	TC9163ST	O	Strobe for IC107 TC9163F control	92	DSP OL	I	DSP overload detect, A/D input
83	A MUTE	O	Audio mute ON/OFF	93	SIMUKE 1	I	SIMUKE (pull-up or down)
84	NC	O	Open	94	SIMUKE 2	I	SIMUKE (pull-up or down)
85	RY-B	O	SP B relay ON/OFF	95	WATT IN	I/O	O/Open (KU,J,SD), I/Fan wattage input, A/D input (other)
86	RY-A	O	SP A relay ON/OFF	96	GND	–	GND
87	NECK(VH/-VL)	O	Neck ON/OFF (24,26,908,938 only)	97	FAN STOP	I/O	O/Open (KU,J,SD), I/Fan stop detector (other)
88	RY-AC	O	AC relay ON/OFF	98	5V	–	Power supply +5V
89	FAN DRIVE	O	Open (KU,J,SD), Fan drive (other)	99	5V	–	Power supply +5V
90	FAN LOW	O	Open (KU,J,SD), Fan low (other)	100	OSD ON	O	Control for IC102 BU4053BCF, TC4W53FU (MR&S model only)

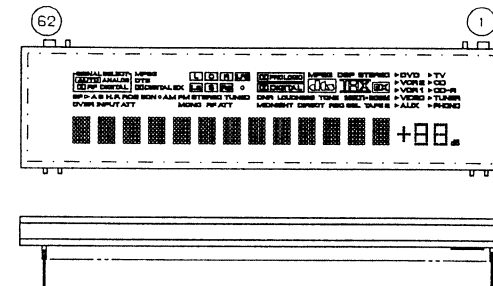
VSX-35TX, VSX-33TX

7.2.2 DISPLAY

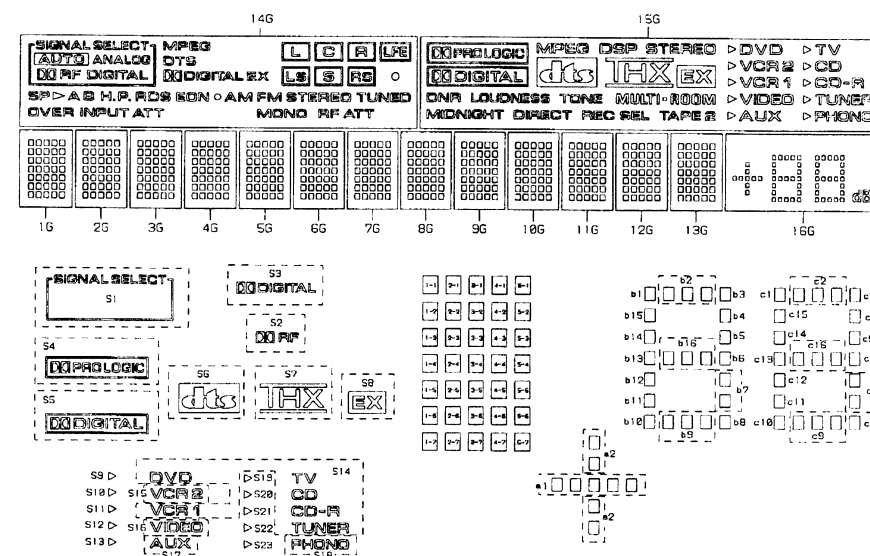
■ AAV7076 (DISPLAY ASSY :V7001)

- FL Indicator Tube

- **Pin Assignment**



- Grid Assignment



	1G-13G	14G	15G	16G
P1	1-1	AM	MIDNIGHT	a1
P2	2-1	FM	DIRECT	a2
P3	3-1	L	REC	b1
P4	4-1	G	SEL	b2
P5	5-1	R	TAPE 2	b3
P6	1-2	FE	ONR	b15
P7	2-2	LE	LOUDNESS	b4
P8	3-2	S	STONE	b14
P9	4-2	RE	MULTI ROOM	b5
P10	5-2	MONO	S5	b13
P11	1-3	STEREO	S6	b16
P12	2-3	RF ATT	S7	b6
P13	3-3	TUNED	S8	b12
P14	4-3	O	S4	c7
P15	5-3	OVER	MPEG	b11
P16	1-4	INPUT	DSP	b10
P17	2-4	ATT	STEREO	b9
P18	3-4	(EON) O	S13	b8
P19	4-4	EON	S12	c1
P20	5-4	RON	S11	c2
P21	1-5	SP >	S10	e3
P22	2-5	A	S9	c15
P23	3-5	B	S17	c4
P24	4-5	H.P.	S16	c14
P25	5-5	SK	S15	c5
P26	1-6	S3	S14	c13
P27	2-6	DYS	S23	c16
P28	3-6	MPEG	S22	c6
P29	4-6	S1	S21	c12
P30	5-6	S2	S20	c7
P31	1-7	DIGITAL	S19	c11
P32	2-7	AUTO	S18	c10
P33	3-7	ANALOG	-	c9
P34	4-7	-	-	c8
P35	5-7	-	-	c18

[illegible]

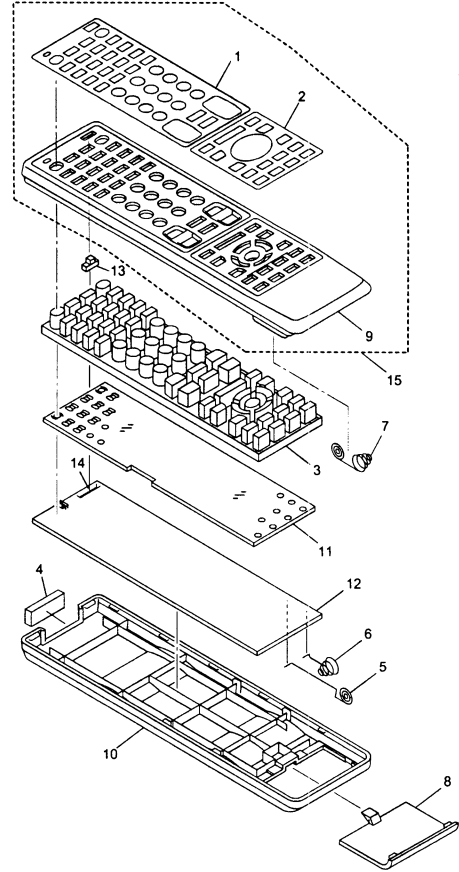
98

7.3 REMOTE CONTROL UNIT

7.3.1 AXD7266 (Remote Control 35)

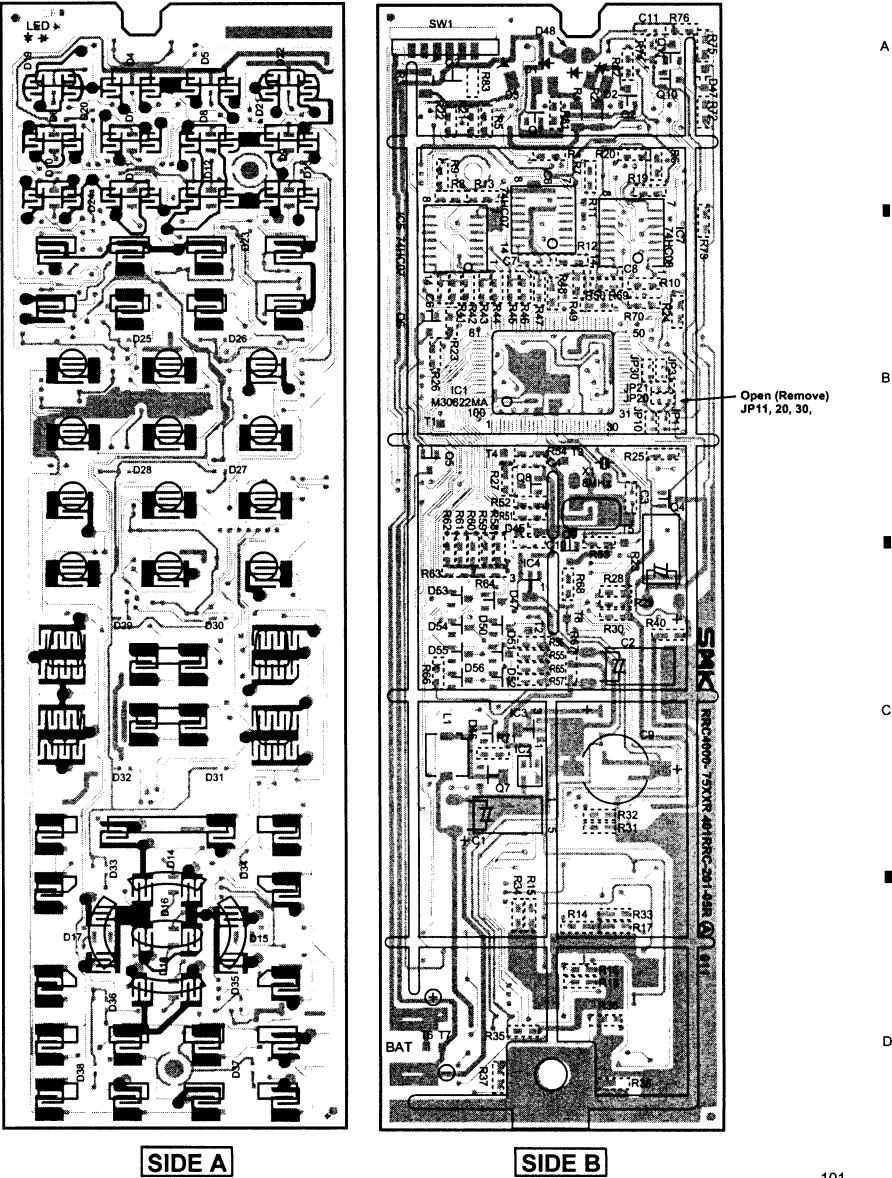
7.3.1.1 EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
● The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
● Screws adjacent to ▼ mark on the product are used for disassembly.

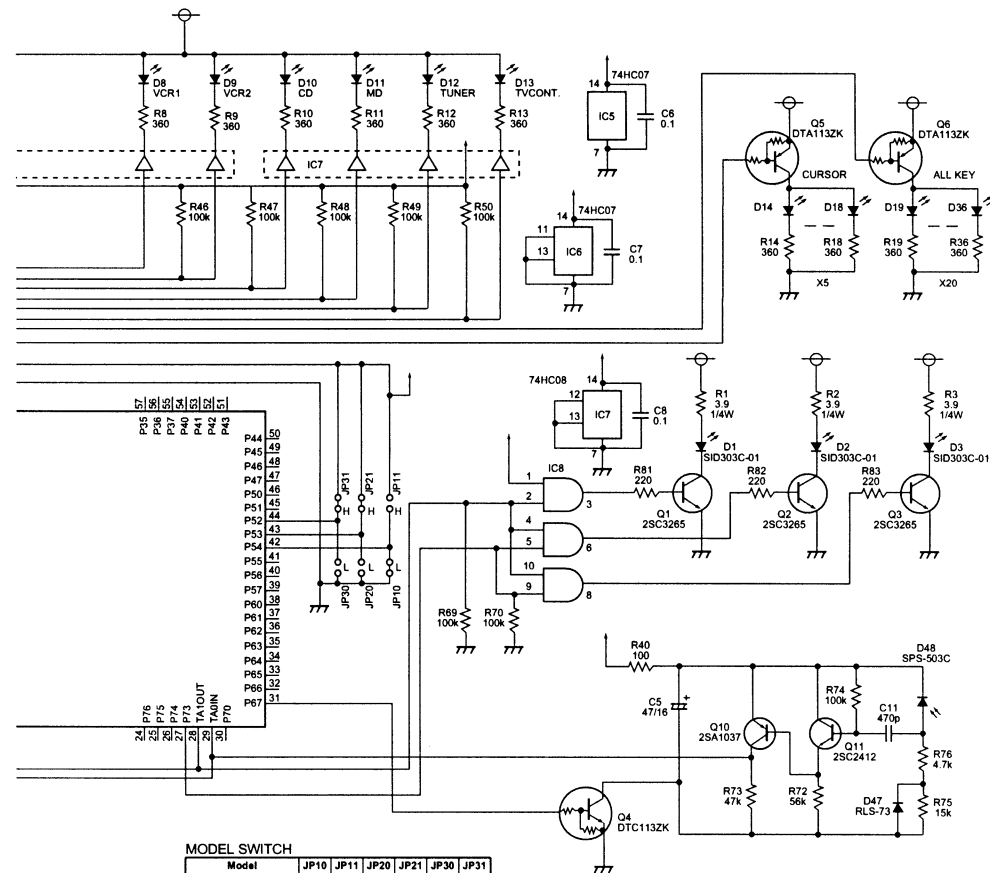
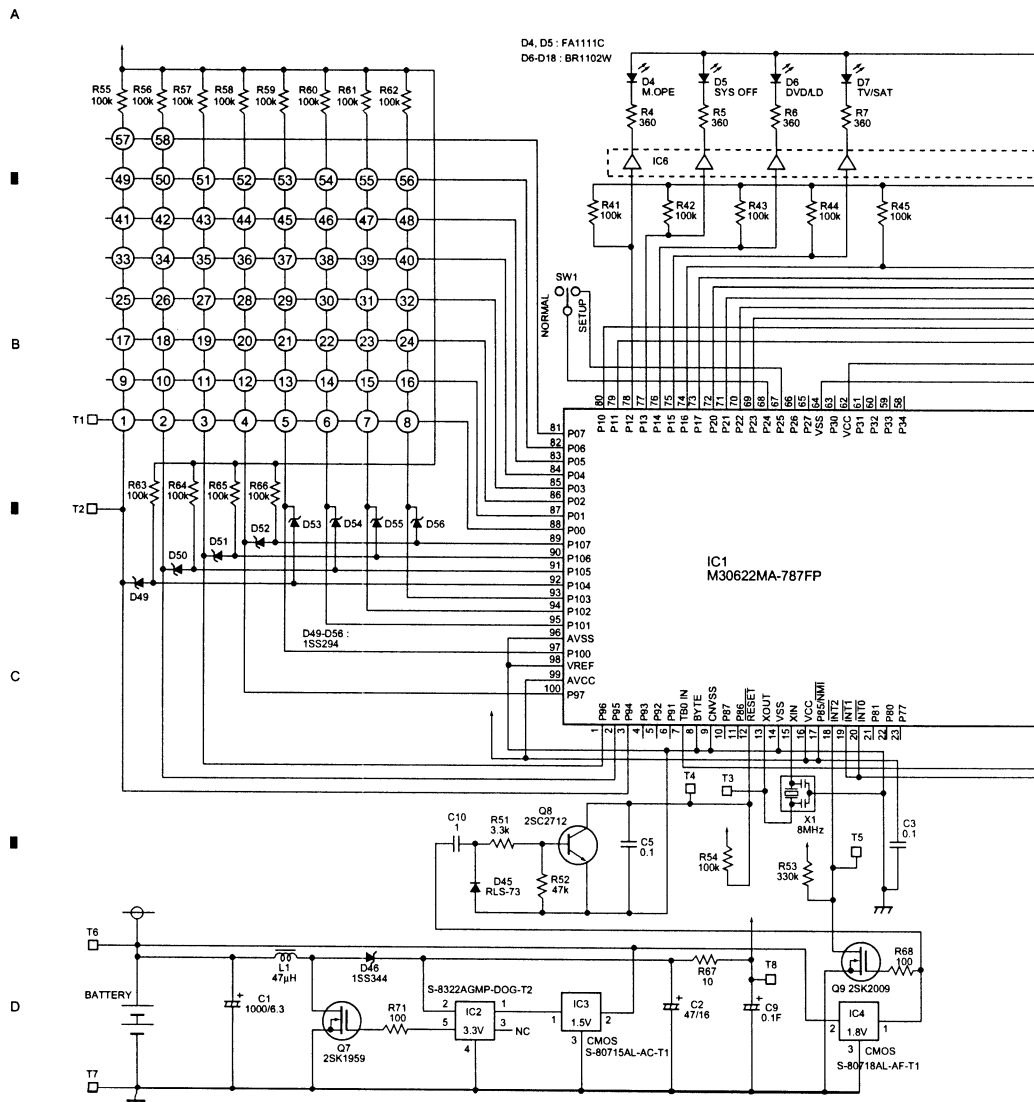


● PARTS LIST			
Mark	No.	Description	Part No.
	1	Name Plate A	AZA7380
	2	Name Plate B (AXD7266)	AZA7396
	3	Rubber Sheet (AXD7266)	AZA7397
	4	Filter	AZA7340
	5	Terminal A (+)	AZB7141
	6	Terminal B (-)	AZB7142
	7	Spring	AZB7143
	8	Battery Cover	AZN7841
	9	Case (A)	AZN7832
	10	Case (B)	AZN7781
NSP	11	Illumi Plate	AZN7782
	12	PCB	AZW7260
	13	Knob	AZA7398
	14	Slide Switch	AZS7036
	15	Case A Assy : 7266	AZN7864

7.3.2.2 PCB DIAGRAM



7.3.2.3 SCHEMATIC DIAGRAM



Model	JP10	JP11	JP20	JP21	JP30	JP31
AXD7257, AXD7278	-	○	-	○	-	○
AXD7258, AXD7279	-	○	-	○	○	-
AXD7259	-	○	○	-	-	○
AXD7266	-	○	○	-	○	-
AXD7273	○	-	-	○	-	○
AXD7275	○	-	-	○	○	○

7.3.2.4 PCB PARTS LIST

NOTES: ● The Δ mark found on some component parts indicates the importance of the safety factor of the part.
Therefore, when replacing, be sure to use parts of identical designation.
● When ordering resistors, first convert resistance values into code form as shown in the following examples.
Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).
560 Ω $\rightarrow$ $56 \times 10^1 \rightarrow 561$ RD1/4PU $\begin{bmatrix} 5 & 6 & 1 \end{bmatrix}$ J
47k Ω $\rightarrow$ $47 \times 10^3 \rightarrow 473$ RD1/4PU $\begin{bmatrix} 4 & 7 & 3 \end{bmatrix}$ J
0.5 Ω $\rightarrow$ R50 RN2H $\begin{bmatrix} 5 & 0 \end{bmatrix}$ K
1 Ω $\rightarrow$ 1R0 RS1P $\begin{bmatrix} 1 & R & 0 \end{bmatrix}$ K
Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).
5.62k Ω $\rightarrow$ $562 \times 10^1 \rightarrow 5621$ RN1/4PC $\begin{bmatrix} 5 & 6 & 2 & 1 \end{bmatrix}$ F

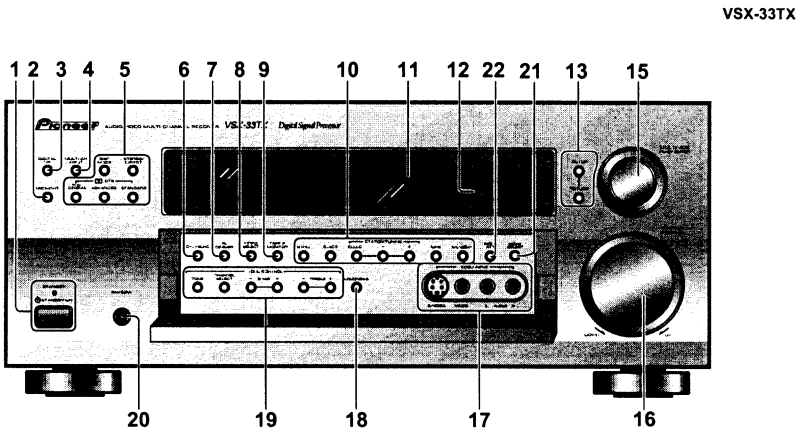
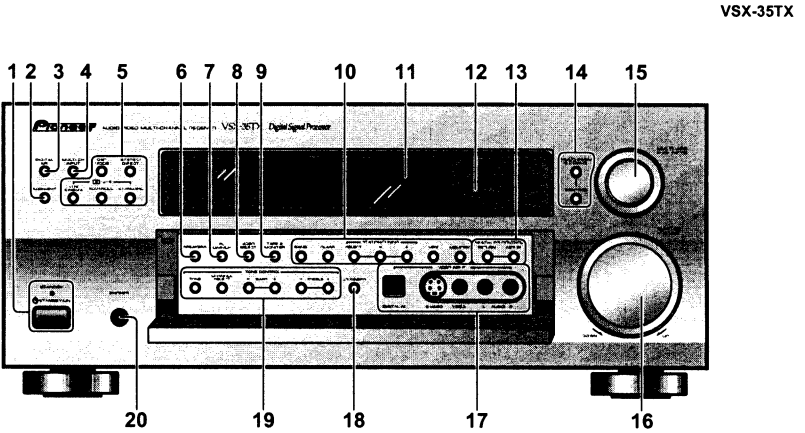
Mark	No.	Description	Part No.
	IC1		M30622MA-787FP
	IC2		S-8322AGMP-DOG-T2
	IC3		S-80715AL-AC-T1
	IC4		S-80718AL-AF-T1
	IC5,IC6		74HC07
	IC7		74HC08
	Q1-Q3		2SC3265
	Q4		DTC113ZK
	Q5,Q6		DTA113ZK
	Q7		2SK1959
	Q8		2SC2712
	Q9		2SK2009
	Q10		2SA1037
	Q11		2SC2412
	D1-D3		SID303C-01
	D6-D18		BR1102W
	D23-D36		CL190TD-CD
	D45,D47		RLS-73
	D46		1SS344
	D48		SPS-503C
	D49-D56		1SS294

8. PANEL FACILITIES AND SPECIFICATIONS

8.1 PANEL FACILITIES

■ Front Section (VSX-35TX,VSX-33TX)

All the controls on the front panel are explained and/or referenced here. To open the front panel push gently on the lower third of the panel.



■ Front Section (for VSX-35TX and VSX-33TX)

1 **STANDBY/ON button**

Press to switch the receiver ON or into STANDBY mode.

STANDBY indicator

Lights when the receiver is in STANDBY mode. (Please note that this receiver consumes a small amount of power [1.0 W] in the standby mode.)

2 **MIDNIGHT button**

Switches the MIDNIGHT mode on or off (cannot be used in THX mode).

3 **DIGITAL NR button**

Switches the DIGITAL Noise Reduction on or off (cannot be used in THX mode).

4 **MULTI CH INPUT**

Use to hook up an external component that can decode other types of signals and input them into the VSX-35TX.

5 **DSP MODE button**

Press repeatedly to select a DSP sound mode. (HALL 1, HALL 2, JAZZ, DANCE, THEATER 1, or THEATER 2, 5/7 CH STEREO). Use these modes to produce surround sound from standard (two channel) stereo sources and create different listening environments.

STEREO/DIRECT button

Switches the receiver into STEREO mode if it was in a different sound mode (like ADVANCED THEATER) or toggles between DIRECT and STEREO mode. For more on STEREO mode.

DIRECT playback bypasses the tone controls and channel level for the most accurate reproduction of a program source.

/ DTS buttons

THX CINEMA – Cycles through the THX CINEMA, THX SURROUND EX or THX AUTO sound modes. Use when listening THX-certified sources if you have THX-certified speaker setup or want to re-create a THX-style sound environment. It is also appropriate for Dolby Digital, Dolby Pro Logic or DTS sources. Those with surround back speakers can use all three THX modes, those without should use the THX CINEMA mode.

ADVANCED THEATER – Use to select one of the four Advanced Theater modes. Use to create certain types of sound environments when listening to Dolby Digital, Dolby Pro Logic or DTS sources.

STANDARD – Use for pure decoding of multi channel sources, especially Dolby Digital, Dolby Pro Logic or DTS software.

6 **SPEAKERS (A/B) button**

Use to select the speaker system. A is the primary setting. It plays all speakers hooked up to the A system. A & B setting only plays the front speakers of both the A & B systems and the sub-woofer. Multi channel sources will be down-mixed to these speakers so no sound will be lost. B setting only plays the front speakers connected to the B system and multi channel sources will be down-mixed to these two speakers. The button cycles through the speaker systems as follows: A⇒B⇒A&B⇒off

7 **FL DIMMER button**

Use to adjust the brightness of the fluorescent display (FL = fluorescent display).

Four levels of the brightness ranging from very dim to very bright can be selected. Each press changes the brightness of the display.

8 **VIDEO SELECT button**

Switches the receiver between the various types of video input while keeping the audio input the same.

9 **TAPE 2 MONITOR button**

Selects the tape deck (MD recorder, etc.) connected to the TAPE 2 MONITOR inputs/ outputs. Allows monitoring of a recording as it's being made.

10 **TUNER CONTROL buttons**

BAND – Press to select the AM or FM band.

CLASS – Press repeatedly to switch the preset station classes.

TUNING SELECT – Switches the STATION/ TUNING button between station memory and frequency select modes.

STATION +/- – Selects station memories when using the tuner.

TUNING +/- – Selects the frequency when using the tuner.

MPX – Press to switch between auto stereo and MONO reception of FM broadcasts. When the broadcast signal is weak, selecting MONO will improve the sound quality.

MEMORY – Press to start the memorization of a preset station.

11 **Display**

12 **Remote sensor**

Point the remote control toward the remote sensor to operate the receiver.

13 **MULTI-JOG CONTROL buttons**

SETUP – Press to switch the setup mode.

RETURN – Press to move back one step in the SETUP process.

14 **MULTI-ROOM & SOURCE button**

(VSX-33TX Only)

Press to use the multi room feature (it's best to have an optional PIONEER Multi-Room Remote Sensor Unit MR-100 or another IR receiver for this feature).

CONTROL button Used together with the INPUT SELECTOR to select the function to select the volume of the MULTI ROOM system.

15 **MULTI JOG dial**

You can use this dial for three purposes. In normal mode turn it to select a source component or press it to switch the display between function mode and sound mode. When you press the SETUP button (13), you can use it to perform SETUP operations (turn to select, push to enter).

The source indicators show the current component:

DVD/LD – DVD player or LaserDisc player.

TV/SAT – TV or satellite tuner.

CD – Compact Disc player.

CD-R/TAPE1/MD – CD recorder, tape deck or Mini Disc recorder connected to CD-R/TAPE 1/ MD inputs/outputs.

TUNER – The built-in tuner.

PHONO – Turntable.

VIDEO – Video camera (etc.) connected to the VIDEO INPUT on the front panel.

VCR1/DVR – Video cassette recorder connected to VCR1/DVR inputs.

VCR 2 – Video cassette recorder or other component connected to VCR 2 inputs.

16 **MASTER VOLUME**

Adjusts the overall receiver volume.

17 **VIDEO INPUT jacks**

DIGITAL IN: (VSX-35TX Only)

Optical video input for connecting a video camera (or video game, portable DVD, etc.), that has an optical out.

S-VIDEO : Video input for connecting a video camera (etc.), that has an S-Video out.

VIDEO / AUDIO (L/R) : Video input for connecting a video camera, etc. that has standard video/audio outputs.

18 **LOUDNESS button**

Switches the LOUDNESS mode on or off (cannot be used in THX mode).

19 **TONE button**

This button has two functions. Firstly, it switches between TONE on and TONE BYPASS, which bypasses the tone circuitry. Secondly, you need to press the button before using the CHANNEL SELECT buttons to adjust the BASS & TREBLE (cannot be used in THX mode).

CHANNEL SELECT button

Switches the tone adjust controls between the FRONT, CENTER, SURROUND and SURROUND BACK speakers. You can then use the BASS and TREBLE controls to adjust the sound.

BASS (-/+) button

Use to adjust low frequencies.

TREBLE (-/+) button

Use to adjust the high frequencies.

20 **PHONES jack**

Connect headphones for private listening (no sound will be heard through the speakers).

21 **SIGNAL SELECT button (VSX-33TX Only)**

Press SIGNAL SELECT repeatedly to select one of the following:

ANALOG – Analog signal.

DIGITAL – Digital signal (DVD/LD, TV/SAT, CD, CD-R/TAPE 1/MD, VCR 1/DVR, VCR 2).

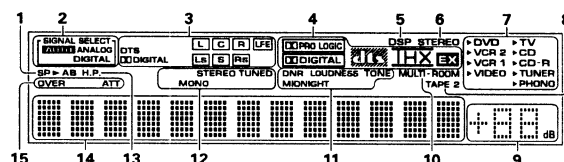
AUTO – This is the default. If there are both analog, digital, the receiver automatically selects the best possible signal.

22 **INPUT ATT button (VSX-33TX Only)**

Use to lower the input level of an analog signal that is too powerful, thus causing the sound to distort (the OVER indicator will light when this is the case).

■ Display (for VSX-35TX)

All the display information is explained and /or referenced here.



1 Speaker indicators

Light to indicate the current speaker system, A and/or B.

2 SIGNAL SELECT indicators

Light to indicate the input signal you selected.

ANALOG – Lights when analog signals are assigned.

DIGITAL – Lights when digital audio signals are selected.

AUTO – Lights when the receiver is set to select the input signal automatically.

3 Program Format Indicator

DIGITAL – Lights when a source with Dolby Digital signals is played.

DTS – Lights when a source with DTS audio signals is played.

For Dolby Digital or DTS sources: These indicators change according to which channels are active in the source. When all three LS (left surround), S (surround) and RS (right surround) light at the same time it means a SURROUND EX source or a DTS ES source with surround back channels is being used.

L – Left front channel.

C – Center channel.

R – Right front channel.

LS – Left surround channel.

S – Surround channel (mono).

RS – Right surround channel.

LFE – Low Frequency Effects channel.

4 DOLBY/DTS mode indicators

DIGITAL – Indicates multi channel playback of a Dolby Digital source.

PRO LOGIC – Lights when Dolby Pro Logic decoding is switched on.

dts – When the DOLBY/DTS mode on the receiver is on, this indicator lights to indicate playback of a DTS signal.

THX – Lights when the HOMETHX CINEMA mode is selected.

EX – Lights when decoding a Surround EX source.

5 DSP indicator

Light when a DSP or Advanced Theater mode is selected.

6 STEREO indicator

Lights when a STEREO mode is selected.

7 Source indicators

► indicator lights at the selecting source.

8 TAPE 2 indicator

Lights when the TAPE 2 monitor is on.

9 MASTER VOLUME indicator

Displays current volume level.

10 MULTI-ROOM indicator

Lights when the Multi-room system is on.

11 Sound control indicators

DNR – Lights when the digital NR is on.

LOUDNESS – Lights when the Loudness is on.

TONE – Lights when the Tone control is on.

MIDNIGHT – Lights when the Midnight mode is on.

12 Tuner Indicators

STEREO – Lights when a FM stereo broadcast is received in the auto stereo mode.

TUNED – Lights when a broadcast is received.

MONO – Lights when the tuner is set to receive FM broadcasts with the mono mode selected.

13 H.P. (headphones)

Lights when headphones are connected to the PHONES jack (speakers systems A and B both turn off automatically).

14 Character display

Shows current mode, status, etc.

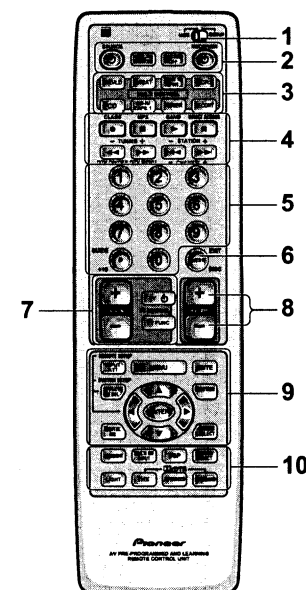
15 Analog level indicators

OVER – When the source signal is analog, this lights if the signal is in danger of distorting. Press INPUT ATT on the remote control to lower the signal level.

ATT – Lights when INPUT ATT is used to reduce the level of the analog source signal.

■ Remote Control Unit (VSX-35TX)

These pages describe the buttons on the remote control used to operate the receiver.



1 USE/SETUP slide switch

Use to put the remote into receiver SETUP, or receiver USE mode.

2 SOURCE button

Use to turn on the power of your other components after you have recalled or taught the signals to this remote control.

MULTI OPERATION button

Use this button to start the MULTI OPERATION mode. for how to program and use the MULTI OPERATION mode.

SYSTEM OFF button

This button turns off components in two ways. First, when pressed it will turn off all PIONEER components. Secondly, any component that has programmed into the MULTI OPERATIONS settings will also be turned off

For example : If you programmed power on for your TV and VCR, pressing the SYSTEM OFF button will turn off these components even if they are not PIONEER products.

RECEIVER button

Press to turn power of the receiver on or to STANDBY (off).

3 MULTI CONTROL buttons

Use these to select a source and the corresponding remote operation mode.

For example, pressing TUNER selects the built in tuner and sets the remote operation to the tuner functions.

4 Component Control buttons

Use to control specific components, like a CD player or DVD player, after you have programmed the remote control to do these operations and the remote is put in that operation mode.

[Tuner control]

CLASS – Press repeatedly to switch the preset station classes.

MPX – Press to switch between auto stereo and MONO reception of FM broadcasts.

BAND – Press to select AM or FM band.

DIRECT ACCESS – Press to activate the direct access tuning mode.

TUNING +/- – Use to manually tune in to radio stations.

STATION +/- – Use to choose programmed radio stations.

5 Number buttons

These buttons can perform a variety of different functions depending on the remote operation mode. They are most useful for CD and tuner operations.

6 ENTER button

Use for controlling other components only.

7 TV CONTROL buttons

The following buttons are used to control the TV only and can be used no matter what function the remote control is set to.

TV button – Press to turn the power of the TV on/off.

TV FUNC button – Press TV FUNC to select the TV for remote control operation.

TV VOL +/- button – Use to adjust the TV volume.

VSX-35TX, VSX-33TX

Amplifier Section
VSX-33TX :

Continuous average power output of
80 watts* per channel, min., at 8 ohms,
from 20 Hz to 20,000 Hz with no more
than 0.09 %** total harmonic
distortion (front).

Continuous Power Output
Front 80 W + 80 W (20Hz-20 kHz, 0.09 %, 8 Ω)
Center 80 W (20Hz-20 kHz, 0.09 %, 8 Ω)
Rear 80 W + 80 W (20Hz-20 kHz, 0.09 %, 8 Ω)
Input (Sensitivity/Impedance)
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD,
CD-R/TAPE 1/MD, TAPE 2 335 mV/47 kΩ
Frequency Response
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD,
CD-R/TAPE 1/MD, TAPE 2 5 Hz to 100,000 Hz: dB
VCR 1/DVR REC, VCR 2 REC, CD-R/TAPE 1/MD REC,
TAPE 2 REC 335 mV/2.2 kΩ
Tone Control
BASS ± 6 dB (100 Hz)
TREBLE ± 6 dB (10 kHz)
LOUDNESS +10 dB (100 Hz/10 kHz)
Signal-to-Noise Ratio (IHF, short circuited, A network)
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD,
CD-R/TAPE 1/MD, TAPE 2 101 dB
MULTI CH IN 101 dB
Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD,
CD-R/TAPE 1/MD, TAPE 2 83 dB

- * Measured pursuant to the Federal Trade Commission's
Trade Regulation rule on Power Output Claims for
Amplifiers.
- ** Measured by Audio Spectrum Analyzer.

VIDEO Section (S jack)

Input (Sensitivity/Impedance)
VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT
Luminance signal (Y) 1 Vp-p/75 Ω
Chrominance signal (C) 0.286 Vp-p/75 Ω
Output (Level/Impedance)
VCR 1/DVR, VCR 2, MONITOR OUT
Luminance signal (Y) 1 Vp-p/75 Ω
Chrominance signal (C) 0.286 Vp-p/75 Ω
Frequency Response
VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT
Luminance signal (Y) 5 Hz to 10 MHz dB
Signal-to-Noise Ratio
Luminance signal (Y) 65 dB

VIDEO Section (Composite)

Input (Sensitivity/Impedance)
VCR 1/DVR, VCR 2, VIDEO, DVD/LD,
TV/SAT 1 Vp-p/75 Ω
Output (Level/Impedance)
VCR 1/DVR, VCR 2, MONITOR OUT 1 Vp-p/75 Ω
Frequency Response
VCR 1/DVR, VCR 2, TV/SAT, DVD/LD
VIDEO→MONITOR OUT, ... 5 Hz to 10 MHz dB
Signal-to-Noise Ratio 65 dB

FM Tuner Section

Frequency Range 87.5 MHz to 108 MHz
Usable Sensitivity Mono: 13.2 dBf, IHF (1.3 μV/75 Ω)
50 dB Quieting Sensitivity Mono: 20.2 dBf
Stereo: 38.6 dBf
Signal-to-Noise Ratio Mono: 73 dB (at 85 dBf)
Stereo: 70 dB (at 85 dBf)
Distortion Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity 60 dB (400 kHz)
Stereo Separation 40 dB (1 kHz)
Frequency Response 30 Hz to 15 kHz (± 1) dB
Antenna Input 75 Ω unbalanced

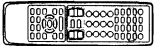
AM Tuner Section

Frequency Range 530 kHz to 1,700 kHz
Sensitivity (IHF, Loop antenna) 350 μV/m
Selectivity 25 dB
Signal-to-Noise Ratio 50 dB
Antenna Loop antenna

Miscellaneous

Power Requirements AC 120 V, 60 Hz
Power Consumption 400 W, 550 VA
Power Consumption in Standby mode 1.0 W
AC Outlet SWITCHED (x2) Total 100 W (0.8 A) MAX
Dimensions 420 (W) × 173 (H) × 463 (D) mm
(16-9/16 (W) × 6-13/16 (H) × 18-1/4 (D) in.)
Weight (without package) 14.6 kg (32 lb 3 oz)

■ Accessories (VSX-35TX / VSX-33TX)

			
FM wire antenna (ADH7004)	AM loop antenna (ATB7009)	"AA" IEC LR6 batteries x 2	Remote control unit (Remocon35 : AXD7266) VSX-35TX (Remocon33 : AXD7267) VSX-33TX

8 MASTER VOLUME buttons

Use to raise or lower the volume of the receiver.

9 INPUT ATT button (when USE mode is selected)

Use to lower the input level of an analog signal that is too powerful, thus causing the sound to distort (the OVERLOAD indicator will light).

REMOTE SETUP button (when SETUP mode is selected)

Use to customize the remote control functions and the remote control itself. (See "Setting Up the Remote Control to Control Other Components", "Multi Operations")

MENU button

Use to get the various menus for your DVD, TV or DTV.

MUTE button

Press to mute or restore the volume.

EFFECT/CH SEL (when USE mode is selected) button

EFFECT – Use these buttons to increase or decrease the amount of effect applied in a DSP or Advanced Theater mode. When the amount of effect is increased in a DSP/Advanced Theater mode the characteristics of that mode become stronger and more noticeable. The scale ranges from 10-90 with 70 as the default setting. First turn on the DSP/Advanced Theater you want (by pressing the DSP/Advanced Theater button until you get the mode) and then increase or decrease the amount of effect.

CH SEL – You may want to adjust the channels when listening to some sound sources. Use this button to select the channel you want to adjust.

SYSTEM SET UP button (when SETUP mode is selected)

Use to set up the speaker and sound systems. For more information see "Setting up for Surround Sound".

FUNCTION button

Press to select a source. The button will cycle through all the possible sources.

▲(+)/▼(-)/◀▶/ENTER buttons

Use to operate the on-screen menu on your TV screen and enter commands when setting up surround sound, speakers levels & settings, and other set up features.

They also can be used to operate DVD players, DTVs and other components after you have input the components preset codes. Specific use of these buttons is described in conjunction with the operations they perform. For more information see each individual section.

DIGITAL NR button

Press to switch Digital NR on or off.

SIGNAL SELECT button

Press SIGNAL SELECT repeatedly to select one of the following:

ANALOG – Analog signal.

DIGITAL – Digital signal (DVD/LD, TV/SAT, CD, CD-R/TAPE 1, VCR 1/DVR, VCR 2, VIDEO).

AUTO – This is the default. If there are analog, or digital signals input the receiver automatically selects the best possible signal.

10 MIDNIGHT button

Switches the MIDNIGHT mode on or off.

MULTI CH INPUT button

Press to switch to multi channel input mode.

DSP button

Press to select a DSP sound mode. Repeated presses cycle through the different possible DSP modes.

STEREO/DIRECT button

Switches the receiver into STEREO mode if it was in a different sound mode (like ADVANCED THEATER) or or toggles between DIRECT and STEREO mode. For more on STEREO mode.

DIRECT playback bypasses the tone controls and channel level for the most accurate reproduction of a program source.

LIGHT button

Press to light the remote control buttons.

DD /DTS buttons

Press these buttons to put the receiver in the selected sound mode. For more information on these specific sound modes.

8.2 SPECIFICATIONS**Amplifier Section****VSX-35TX :**

Continuous average power output of 90 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion (front).**

Continuous Power Output	
Front	90 W + 90 W (20 Hz – 20 kHz, 0.09 %, 8 Ω)
Center	90 W (20 Hz – 20 kHz, 0.09 %, 8 Ω)
Rear	90 W + 90 W (20 Hz – 20 kHz, 0.09 %, 8 Ω)
Input (Sensitivity/Impedance)	
PHONO MM	4.7 mV/47 kΩ
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1/MD, TAPE 2	335 mV/47 kΩ
Phono Overload level (T.H.D.0.1 %, 1 kHz)	
PHONO MM	120 mV
Frequency Response	
PHONO MM	20 Hz to 20,000 Hz ± 0.3 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1/MD, TAPE 2	5 Hz to 100,000 Hz dB
Output (Level/Impedance)	
VCR 1/DVR REC, VCR 2 REC, CD-R/TAPE 1/MD REC, TAPE 2 REC	335 mV/2.2 kΩ
Tone Control	
BASS	± 6 dB (100 Hz)
TREBLE	± 6 dB (10 kHz)
LOUDNESS	+10 dB (100 Hz/10 kHz)
Signal-to-Noise Ratio (IHF, short circuited, A network)	
PHONO MM	80 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1/MD, TAPE 2, MULTI CH IN	101 dB
Signal-to-Noise Ratio (EIA, at 1 W (1 kHz))	
PHONO MM	80 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD, CD-R/TAPE 1/MD, TAPE 2	83 dB

* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.

** Measured by Audio Spectrum Analyzer.

VIDEO Section (S jack)

Input (Sensitivity/Impedance)	
VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT	
Luminance signal (Y)	1 Vp-p/75 Ω
Chrominance signal (C)	0.286 Vp-p/75 Ω
Output (Level/Impedance)	
VCR 1/DVR, VCR 2, MONITOR OUT	
Luminance signal (Y)	1 Vp-p/75 Ω
Chrominance signal (C)	0.286 Vp-p/75 Ω
Frequency Response	
VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT	
Luminance signal (Y)	5 Hz to 10 MHz dB
Signal-to-Noise Ratio	
Luminance signal (Y)	65 dB

Component Video Section

Input (Sensitivity)	
Y	1 Vp-p/75 Ω
Pb/Pr	0.7 V
Output (Level/Impedance)	
Y	1 Vp-p/75 Ω
Pb/Pr	0.7 V
Frequency Response	
Y	5 Hz to 20 MHz dB
Pb/Pr	5 Hz to 13 MHz dB

VIDEO Section (Composite)

Input (Sensitivity/Impedance)	
VCR 1/DVR, VCR 2, VIDEO, DVD/LD, TV/SAT	1 Vp-p/75 Ω
Output (Level/Impedance)	
VCR 1/DVR, VCR 2, MONITOR OUT, MONITOR OUT2	1 Vp-p/75 Ω
Frequency Response	
VCR 1/DVR, VCR 2, TV/SAT, DVD/LD VIDEO→MONITOR OUT, ...	5 Hz to 10 MHz dB
Signal-to-Noise Ratio	65 dB

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono: 13.2 dBf, IHF (1.3 μV/75 Ω)
50 dB Quieting Sensitivity	Mono: 20.2 dBf
Stereo: 38.6 dBf	
Signal-to-Noise Ratio	Mono: 73 dB (at 85 dBf)
Stereo: 70 dB (at 85 dBf)	
Distortion	Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity	60 dB (400 kHz)
Stereo Separation	40 dB (1 kHz)
Frequency Response	30 Hz to 15 kHz (± 1) dB
Antenna Input	75 Ω unbalanced

AM Tuner Section

Frequency Range	530 kHz to 1,700 kHz
Sensitivity (IHF Loop antenna)	350 μV/m
Selectivity	25 dB
Signal-to-Noise Ratio	50 dB
Antenna	Loop antenna

Miscellaneous

Power Requirements	AC 120 V, 60 Hz
Power Consumption	400 W, 550 VA
Power Consumption in Standby mode	1.0 W
AC Outlet SWITCHED (x2)	Total 100 W (0.8 A) MAX
Dimensions	420 (W) × 173 (H) × 463 (D) mm
(16-9/16 (W) × 6-13/16 (H) × 18-1/4 (D) in.)	
Weight (without package)	15.0 kg (33 lb 1 oz)

Furnished Parts

FM wire Antenna	1
AM loop Antenna	1
"AA" IEC LR6 batteries	2
Remote Control Unit	1
Operating Instructions	1

NOTE:

Specifications and the design are subject to possible modifications without notice, due to improvements.